

G 12 FOCUS :

2.

- 1) MAKE FINAL SETTING WITH RED NOS. DECREASING
- 2) FOR CENTRE TO VIOLET, CORRECT BY INCREASING RED NOS.
- 3) DECREASING TEMP. CAUSES C. TO VIOLET
- 4) .50 DIV. = 21 MICRONS ON FOCUS PLATE
= MOVEMENT OF CAMERA 6×10^{-3} IN.

TYPICAL FOLDS : 90R (WINTER)
5R (SUMMER)

3.

Dome Temp.

FOCUS

Dome Temp.

Hour Angle	End
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24

Mang Vicitore till 11^h 50^m!
GH-GE 83-75

83-75

Observer... Dy / Tw

Julian Day

Dome Temp
Focus 40
Dome Temp

Dome Temp. 48°F $H=74\%$ Focus $40R-5R$ Dome Temp. 46°F $H=78\%$ Transparency Conditions *Excellent**Cirrus in SW.*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1 ^h 53 E	+75 30	2-3"	6.84	FO	6-6-6	Gz/SP Bi	400/260		SL. WK
1 ^h 08 E	+47 45	"	6.66	A0	6-6-6	"	400/200		(GUIDING) WK
	+21 55		~~7.4- 9.6~~	~~F2- K4~~	~~6-~~	~~RV Tan~~	~~800/~~	<i>too faint</i>	
1 ^h 50 E	-5° 40'	2-3"	~~6.3- 8.6~~	~~G0- K0~~	6-6-6	RV Tan	400/180		U.S.L. WK
02 06 E	+33 27	2"	6.46	B0.5	6-6-6	Bln: SP Bi	200/100		(GUIDING) FINE
01 44 E	+47 43	"	6.6	B2V	6-6-6	Gz: Sp-Bln	200/100		(GUIDING) FINE
01 27 E	+36 50	"	4.82	B3Ve	6-6-6	SpBln-Bln	200/100		
00 49 E	+10 37	2-3"	4.15	K3II	6-6-6	Std Vel	40/30		FINE

Date 10/11 May '71 Mon/Tue Observer Blu-Tu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle End
34458	HD 77309	08 ^h 56 ^m .7	+54° 41'	6-12	IIa-0	13/5	64°F	20:14	20:26	A	02:18 W
34459	HD 93702	10 44.0	+11 04	"	"	"		20:28	20:40	B	00 46 W
34460	HD 104451	11 56.6	+30 06	"	"	13/3	63°F	20:43	23:13	A	02 08 W
34461	HD 103483	11 49.9	+42 02	"	"	13/5		23:18	23:56	B	02 58 W
34462	HD 107325	12 15.3	+27 11	"	"	13/3	61°F	00:01	00:23	A	03 00 W
34463	HD 130841	14 45.4	-15 38	"	"	13/5	"	00:28	00:30	B	00 37 W
34464	HD 134646	15 05.9	+63 30	"	"	"		00:36	01:22	A	01 10 W
34465	HD 124675	14 09.9	+52 15	"	"	"		01:25	01:38	B	02 13 W
34466	HD 124897	14 11.1	+19 42	"	"	"		01:36	01:37	A	02 19 W
34467	HD 130109	14 41.2	+2 19	"	"	"		01:43	01:47	B	02 00 W
34468	HD 141458	15 44.1	+13 01	"	"	"	60°F	01:51	02:25	A	01 34 W
34469	32 Ser	15 44.4	-3 07	"	"	"		02:29	02:32	B	01 41 W
34470	HD 152614	16 49.3	+10 20	"	"	"		02:35	02:39	A	00 44 W
34471	HD 161868	17 42.9	+2 45	"	"	"		02:42	02:46	B	00 05 E
34472	HD 164577	17 56.7	+1 18	"	"	"		02:47	02:53	A	00 11 E
34473	HD 159026	17 27.3	+38 57	"	"	"		02:56	03:28	B	00 55 W

Dome Temp. $53^{\circ} 50\%$ Transparency Conditions Excellent - some grad. haze

8.

Focus

Dome Temp.

Time M.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
6	A	02 18 W	54 28	1.2"	5.64	A2m	6-6-6	Sp. Bin-Blu	200/100		FINE
0	B	00 46 W	+10 48	2	5.29	A2V	6-6-6	"	200/100		FINE
3	A	02 08 W	+29 48	1.3"	V=8.4	9F3	6-6-6	"	400/160		SC. WK
6	B	02 59 W	+46 44	2.3"	6.46	AO	6-6-6	"	400/200		(GUIDING) SC. WK.
23	A	03 00 W	+26 52	2-3	V=5.47	g/K2	6-6-6	"	400/200		FINE
30	B	00 37 W	-15 49	2"	2.79	Am	10-10	"	40/19		(GUIDING) FINE
22	A	01 10 W	+63 15	1-2	V=6.75	F2	6-6-6	"	400/260		(GUIDING) SC. WK
8	B	02 13 W	+52 00	2	4.74	A7II	10-10	"	40/18		FINE
7	A	02 19 W	+19 25	2	1.30	K2III _p	10-10	RV STD	40/29		SC. STR
7	B	02 00 W	—	2	3.74	AOV	10-10	Sp Bin-Blu	40/18		FINE
5	A	01 34 W	+12 55	1.2"	6.80	AO	6-6-6	"	400/200		(GUIDING) FINE
32	B	01 41 W	-3° 16'	"	3.50	AOV	10-10	"	40/18		FINE
29	A	00 44 W	+17	"	4.30	B8II	6-6-6	"	40/19		FINE
16	B	00 05 E	+2 47	"	3.79	AOV	10-6-3	"	40/18		FINE
3	A	00 11 E	+1 23	"	4.46	A1V	10-10	"	40/18		(GUIDING) FINE
8	B	00 55 W	+38 59	"	V=6.35	F2m	6-6-	"	400/260		FINE

Date May 11 / 71 cont

Observer.....Bln-Tn

Julian Day

[illegible]

406 H-572

.....

50°F H=52%

to

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
56	A	00 55 E	+33 25	2"	6.66	B05 II	6-6-6	Sp Bin-Bln	400/200		FINE
02	B	01 09 E	+36 51	"	4.82	B35 II	10-10	"	40/18		FINE
09	A	01 40 E ~~02 20 E~~	+36 28	"	4.42	B5 V	10-10	"	40/18		(GUIDING) FINE
	B						3/3	no filter			GOOD
MWP-2 @ 68°F for 9 min											
		"	"	"							

Date WED/THUR MAY 12/13 1971 Observer Gt-Tn Julian Day

[illegible]

12

[illegible]

Date THUR/FRI 13/14 MAY '71 Observer Blu-Tu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
34478	HD 93702	10 44.0	+11 04	G-12	IIa-D	13/5		20:19	20:35	A	0055W
34479	HD 110411	12 36.8	+10 47	"	"	"	52°F	20:39	20:55	B	0037E
34480	HD 77309	05 56.7	+54 41	"	"	"		21:03	21:25	A	0332W
34481	HD 103483	11 49.9	+47 02	"	"	"		21:28	22:04	B	0117W
34482	HD 104451	11 56.6	+30 06	"	"	20/3	51°F	22:09	23:57	A	0305W
34483	HD 107325	12 15.3	+27 11	"	"	13/3		00:01	00:21	B	0310W
34484	HD 130841	14 45.3	-15 38	"	"	13/5		00:24	00:26	A	0045W
34485	HD 130109	14 41.2	+2 19	"	"	"		00:29	00:32	A	0031W
34486	HD 124897	14 11.1	+19 42	"	"	"		00:36	00:37	A	0032W
34487	HD 124675	14 09.9	+52 15	"	"	"		00:42	00:48	B	0144W
34488	HD 134646	15 05.9	+63 30	"	"	"		00:53	02:01	A	0011W
34489	HD 141458	15 44.1	+13 01	"	"	"		02:34	03:28	B	0250W
34490	HD 152614	16 49.3	+10 20	"	"	"		03:31	03:37	A	0121W
34491	HD 167965	18 12.5	+42 08	"	"	"		03:40	03:52	B	0046W
34492	HD 171610	20 05.7	+36 33	"	"	"		03:54	04:00	A	0100E
34493	HD 198173	20 43.5	+36 07	"	"	"	45°F	04:02	04:06	B	12:01

Dome Temp.

Focus

Dome Temp.

Dome Temp. 49° H=59%

Transparency Conditions Fair-Poor/Excellent after 22:00

Focus

Dome Temp. 39°F H=69%

Funny Satellite 2:30 - 2:40

big dipper - 2 B00

14

Time	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
35 L		00 55 W	+10 46	3	5.29	A2V	6-6-6	Sp. Bin-Blw	209/100		FINE
55 L		00 37 E	+10 27	"	4.97	A1V	6-6-6	"	80/38	some cloud	(600-0.175) FINE
25 H		03 30 W	+54 26	"	5.64	A2V	6-6-6	"	209/100	"	FINE
04 L		01 17 W	+46 41	2"	6.46	A0	6-6-6	"	400/200		FINE
7 A		03 05 W	+29 44	3	8.7	gF3	6-6-6	"	800/300	new planet	U.S.C. W.R.
21 A		03 10 W	+26 51	3	^{V=} 5.47	gK2	6-6-6	"	400/200		V.S.C. W.R.
6 A		00 45 W	-15 54	2-3"	2.89	Am	10-10	"	40/19		FINE
2		00 56 W	+2 05	2	3.74	A0V	10-10	"	40/18		FINE
7 A		01 32 W	+19 24	2	1.30	K2III _p	10-10	RV STD.	40/25		FINE
2 L		01 44 W	+52 00	3	4.74	A7IV	10-10	Sp. Bin-Blw	40/18		FINE
A		02 58 W	+63 15	3-5"	^{V=} 6.75	F2	6-6-6	"	400/200		FINE
2 L		02 50 W	+12 52	3-8"	6.80	A0	6-6-6	"	400/200		FINE
7 A		01 54 W	+10 16	4	4.30	M2V	6-6-6	"	40/18		(U.S. F.L.B.) FINE
L		00 43 W	+42 12	3-4"	5.51	A0V	6-6-6	"	200/100		FINE
A		01 00 E	+36 48	2-4"	4.72	M0V	10-10	"	40/18		FINE
6 L		01 30 E	+36 26	4	4.42	B7V	10-10	"	40/18		FINE

15

#1

(* D₀ - Old 16hr baked)Date Fri-Sat 14/15 May 71 Observer G.I.-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
34494	HD 78316 (Knc)	9 ^h 02 ^m 3	+11° 04'	G12	Il-a-0	9/5		20:19	20:35	A	02° 04' W
34495	HD 77350 (Knc)	9 ^h 56 ^m 9	+24° 51'	"	"	"	53°F	20:40	21:00	B	02° 04' W
34496	HD 87737 (Knc)	10 ^h 01 ^m 9	+17° 15'	"	"	"		21:02	21:06	A	02° 11' W
34497	HD 114330 (Knc)	13 ^h 04 ^m 2	-5° 00'	"	"	"		21:10	21:20	B	02° 11' W
34498	HD 118222 (Knc)	13 ^h 29 ^m 0	+4° 10'	"	"	"		21:25	21:39	A	00° 42' E
34499	HD 118216	13 30.3	+37 42'	"	"	"		21:43	22:01	E	00° 21' E
34500	HD 137909	15 23.7	+29 27	"	"	"	53°F	22:05	22:09	A	02° 06' E
34501	HD 145389	16 05.6	+45 12	"	"	"		22:14	22:20	B	02° 36' E
34502	HD 144287	16 00.0	+25 30	"	*	13/3		22:26	23:16	A	01° 35' E
34503	HD 145457	16 06.0	+27 01	"	*	"		23:18	23:46	E	01° 35' E
34504	HD 154512	17 00.8	+28 04	"	*	13/3		23:55	00:51	A	01° 35' E
34505 <	HD 169169	18 18.3	+14 57	"	*	13/5	49°F	00:57	01:57	A	01° 35' E
34506	HD 196502	20 32.8	+79 37	"	Il-a-0	9/5		02:09	02:23	B	02° 56' E
34507	HD 207260	21 42.5	+60 40	"	Il-a-0	"		02:30	02:38	A	03° 57' E
34508	HD 202550	21 13.5	+38 59	"	"	"	48°F	02:46	02:52	E	03° 11' E
34509	HD 201601	21 05.5	+9 44	"	"ent	"		02:59	03:15	A	02° 41' E

Dome Temp.

Focus

Dome Temp.

Dome Temp. 47°F H: 52%

Transparency Conditions Excellent

16

Focus

Dome Temp.

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A	02 ^h 40W	+10° 53'	2"	5.24	B8p	6-6-6	G/ Apem	200/100		FINE
00	B	03 ^h 09W	+24° 39'	"	5.46	B9p	6-6-6	"	200/100		FINE
06	A	02 11 W	+16° 59'	"	3.48	A0I	10-10	"	40/18		FINE
	A	02 ^h 37E	-5° 18'	"	4.37	A1I	6-6-6	"	200/97		FINE
09	A	00 42 E	+3° 52'	"	4.94	A2p	6-6-6	"	200/100		FINE
01	B	00 21 E	+37° 23'	1"-2"	4.95	F2I	10-10	"	200/130		FINE
19	A	02 ^h 06 E	+29° 15'	"	3.66	F0p	10-10	"	40/24		FINE
20	B	02 36 E	+45° 04'	2"	7.24	B9p	10-10	"	40/18		FINE
16	A	01 35 E	+25° 23'	"	8.24	G8V	3-3-3 3-3-3	5 5 V	800/350	very fast	FINE
00	B	01 ^h 11" E	+26° 52'	1"-2"	8.14	K0I	3-3-3 3-3-3	"	800/350	"	FINE
01	B	01 ^h 01" E	+28° 11'	1"-2"	8.59	K1I	3-3-3 3-3-3	"	800/350	"	V.S.L. WK
	A	01 ^h 12" E	+15° 03'	"	7.40	A2p	6-6-6	G/ Apem	400/200		MISSING
03	B	02 56 E	+74° 55'	2"-3"	5.19	A0p	6-6-6	"	200/100		FINE
38	A	03 53 E	+61° 02'	1"	4.28	A2I	10-10	"	40/18	mag. 1.0	V.S.L. WK
52	B	03 11 E	+39° 17'	"	4.24	B9I	10-10	"	40/18		FINE
15	A	02 41 E	+10° 04'	"	4.64	F0p	10-	"	40/24		FINE

Date Sept 15/71 cont Observer GI-Tn Julian Day 1971085

[illegible]

Dome Temp. 41°F.....Hr 553

Transparency Conditions

18

[illegible]

Public right Hrs-61
74 - 59

* baked plates

Date May 15/16 1971

74 - 59

Observer MEU-In

Julian Day

[illegible]

Focus
Dome Temp. 48°F H=65%

Transparency Conditions Poor
Haze & Cloud

20

[illegible]

* baked H_2O - 16 hr

Dome Temp.

Focus

Dome Temp

Hour Angle
End

52 2 (8)

0213W

31 ME

50415

0202

00135

6. 264

0136W

Dome Temp. 47°F H=50?

Good Aurora

22

[illegible]

Date Mon-Tue 17/18 May 1971 Observer B/n-Tn Julian Day 175.5

[illegible]

Dome Temp. 52° 74%
 Focus $5-R$ $40-R$
 Dome Temp. 53° 55%

Transparency Conditions $Fair - lots of cirrus and$
 $cirrostratus around$ 22

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		$01^h 03^m$	$+10^{\circ} 48'$	2	5.29	A2V	6-6-6	Sp. Bin-Blu	200/100		FINE
		03 07W	$+54 29$	2	5.64	A2u	6-6-6	"	200/100		FINE
		01 00W	$+46 41$	$2^h 3'$	6.46	A0	6-6-6	"	400/200	Clouds moving in at 2110	(GUIDING) FINE
		00 25W	$+10 27$	2	4.97	A1V	6-6-6	"	80/36		FINE
		01 07E	$+2 03$	"	3.74	A0V	6-6-6	"	80/40	Cloud	FINE
		01 44W	$+26 54$	1-2	$V=$ 5.47	gK2	6-6-6	"	400/200		FINE
		02 07E	$+17 25$	2	1.30	K2III	10-10	R V-Std	40/25		STRONG
		00 35E	—	2	2.89	Am	10-10	Sp. Bin-Blu	40/20		(GUIDING) FINE
		00 12W	$+52 00$	1-2	4.74	A7IV	6-6-6	"	40/19		FINE
		00 50W	$+53 17$	"	$V=$ 6.75	F2	6-6-6	"	400/170	Cloud at 23:30 Cut short - overdeveloped	(GUIDING) SL. BLK + VERY SLIGHT CENTRE TO R
							3/3	no filter		Closed 02 ^h	VERY SLIGHT CENTRE PLACED IN THE BLK
				"			"	"			
		2u WP	$2/9.0 \text{ min}$	@	$68^{\circ} E$						

Date Tues-Wed 18/19 May 71 Observer Tn Julian Day 175

[illegible]

Dome Temp.

24

Time R.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
A				2'4"	5.48	F5p	6-	G1001	900/	Forget it Will this sky ever make up its mind?	
										JIM : IT'S PROBABLY OK TO GO BACK TO USING P.H.C. ALSO, THE SHORT UNEXP. PLATES ARE OK	
										FOCUS CHANGED TO 20-R	

Date Wed/Thur 19/20 May 71 Observer Gl-Ri Julian Day

[illegible]

Dome Temp.

Transparency Conditions

hazy
bad seeing

24

[illegible]

Date Thurs/Fri 20/21 May '71 Observer 131n-R1 Julian Day 171

[illegible]

Dome Temp. 5° H = 2%

Focus

Dome Temp. 50..... $14 = 59^{\circ}$

Transparency Conditions

Transparency Conditions Clouds at start - but clearing
Excellent at end

Freeport, N. Y.

28

[illegible]

Date Fri Sat May 21-22 1971 Observer Rm - R: Julian Day _____

[illegible]

Dome Temp. 44°F....

22

[illegible]

Date 22/23 May '71 Sat/Sun Observer Bln-R Julian Day 171.5

[illegible]

Dome Temp. 45°F 58%

Transparency Conditions Excellent - good

22

[illegible]

Date 23/5/71 May Sun Observer McU - R. Julian Day 175

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34549	HD 84441	09 ^h 40 ^m 2	+24° 14'	G-12	IIA06	13/0.5	61°F	21 23	21 26	A
34550	HD 105598	12 06 2	+25 19	G-12	"	12/0.3	59°F	21 30	21 52	B
34550F1	found to be out of focus			G-12	"	9	58°F			B
T1										
T2										
T1 & T2 are test plates looking for the correct shutter speed										
T1) 10 minutes - long light 2" and 3" long										
T2) 15 minutes all dome lights on (to expose clouds)										
~~HD 114157~~	~~10° 40' 2~~	~~21 30~~	~~00~~	~~IIA06~~	~~2/0.5~~	~~21 24~~				~~A~~
34550 T3	calibration	step wedge for plates			34538- 34546				25 May 1971	

Dome Temp. 50°F / 57%

Transparency Conditions *clear with 2 boxes - 1 day a w.*

34

[illegible]

Dome Temp.

Transparency Conditions

22

[illegible]

Date May 28-29 Fri-Sat Observer Dino/Tn Rm Julian Day 172-173

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34551	HD 153720	16 ^h 56 ^m .0	+75° 34'	G12	IIA0	13/5	61°F	20 ^h 50	21:38	A
34552	HD 154528	17 00.9	177 48	"	"	"		21:54	22:18	B
34553	HD 144287	16 00.0	25 30	"	"	13/3	59°F	22:45	23:50	C
34554	XDPH = HD 163719	17 ^h 47.3	-06° 07.2	"	"	13/3		01 ^h 13	00:47	A
34555	VV08 = HD 185059	19 32.3	+20 07	"	"	"	57°F	00 ^h 53	02:25	B
34556	RSct =	18 42.1	-5 49	"	"	13/5		02:37	03:07	A
34557	S Sgc = HD 1072	19 52.0	+16 22	"	"	13/5	55°F	03:13	03:43	C
34557T1	Calibrated step wedge for plates					24551-57		May 29 / 70		

Dome Temp. 50°F 14 52%

Transparency Conditions *Good - Excellent*

28

[illegible]

Visitors until 12 EDT 1

Date May 29/20 Sun-Sun Observer DY/TN Julian Day 175

[illegible]

Dome Temp. 54°F 11:50Transparency Conditions Excellent

40

Focus

Dome Temp. 51°F 11:53

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1	4	01 16E	+21 56	2"	7.4- 7.6	F2-44	4-1-1	R/Tan	800/350		FINE
2	2	00 45E	-05 38	3"	6.5- 6.6	4-4-4	4-4-4	"	400/150		FINE
0	2	00 05W	+01 21	2.3"	7.20- 9.00	FR- K0	4-1-4	Ceph-L-Rm	400/175		FINE
3	4	02 20E	+22 55	3"	5.5	4-4-4	4-4-4	SpBm-GZ	200/80		(GUIDING) J.S.L. WK
4	4	02 12W	+04 40	3.4"	3.93	K2 II	6-	std Vel	40/20		FINE
1		02 12W	+04 40				2/2	no filter			J.S.L. CENTRE TO RED
1		new 2/	9.0 min @ 65°K					2000			

41

Date May 30/31 Sun-Mon Observer McL-Tn Julian Day 175

[illegible]

Dome Temp. 52°F 110706

not very good

42

[illegible]

43 PRIMARY REALUMINIZED MAY 31 - JUN 1

Date 1 1/2 JUNE 1971 Tue/Wed Observer Blu - Tu Julian Day _____

[illegible]

Dome Temp. ... 50°F ... N 4870

Transparency Conditions *Full Spectrum*

44

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
5	A	00 31 E	-15° 52'	2-5	2.89	Au	9-5	Sp. Bin - Bin	200/76		V-SL WR
6	B	00 09 E	+ 2 05	2-3"	3.74	AOV	7-7	"	200/75		FINE
7	C	02 07 E	+10° 18'	1-2"	4.30	ECV	7-7	"	200/76		* FINE
8	D	01 34 E	+ 2 07	"	3.76	ATV	7-7	"	200/75		* FINE
9	E	02 37 E	+ 4 40	2"	3.93	K2 III	7-7	RV STD Sl. + Test	200/100		FINE
10	F	02 31 E	"	"	3.93	K2 II	6-6	"	200/100		FINE
11	G	02 27 E	+ 4 40	"	3.93	K2 III	6-6	"	200/103		FINE
12	H	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170	Both Bin + Tv thought that image was too dim at 175 mag. but later seemed normal. Ecl?	V-SL WR
13	I	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		GOOD
14	J	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		* WEAK cam P.
15	K	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
16	L	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
17	M	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
18	N	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
19	O	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
20	P	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
21	Q	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
22	R	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
23	S	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
24	T	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
25	U	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
26	V	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
27	W	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
28	X	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
29	Y	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		
30	Z	00 30 W	+ 2 54	2-3	6.30	AO	7-7	Sp. Bin - Bin	400/170		

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Date 3/4 JUNE '71 Thurs/Fri Observer B/n-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
34578	HD 93702	10 ^h 44. ^m 0	+11° 04'	G-12	IIa-D	13/5	63°F	20:39	20:51	A	02:30
34579	HD 104451	11 56.6	+30 06	"	"	20/13		20:58	22:32	B	03:02
34580	HD 103473	11 49.9	+40 02	"	"	13/5		20:35	22:01	C	02:30
34581	HD 124675	14 09.9	+52° 16'	"	"	"		23:05	23:09	A	02:30
34582	HD 130841	14 45.3	+15 38	"	"	"		23:12	23:14	B	02:30
34583	HD 107325	12 15.3	+27 11	"	"	13/5	61°F	23:20	23:56	C	02:30
34584	HD 124887	14 11.1	+11 42	"	"	"		00:00	00:01	A	02:18
34585	HD 120109	14 41.2	+12 09	"	"	"		00:05	00:07	B	02:30
34586	HD 141455	15 40.1	+13 51	"	"	"		00:11	00:14	C	02:30
34587	HD 152614	16 49.3	+10 20	"	"	"		00:14	00:51	A	02:30
34588	HD 149026	15 27.3	+29 57	"	"	"		00:59	01:27	B	00:29
34589	HD 124457	12 50.7	+11 18	"	"	"	61°F	01:30	01:34	C	01:34
34590	HD 127178	13 58.5	+11 40	"	"	"		01:37	01:55	A	02:30
34591	HD 127965	13 12.5	+12 03	"	"	"		01:50	02:02	B	02:30
34592	HD 178073	18 42.5	+54 46	"	"	"		02:05	02:09	C	01:34
34593	HD 178965	20 29.3	+47 13	"	"	"		02:15	02:33	A	01:27

Dome Temp. $59^{\circ} \text{H} = 86\%$

Transparency Conditions

Lots of G-d. haze - fair $\frac{8}{6}$

Focus

Dome Temp.

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1	1	02 34W	+10° 46'	2-3	5.29	A2V	8-8	Sp. Bin-Blu	200/85		U.S. WK
2	1	03 02W	+29 47	2	8.7	gF3	5-6-6	"	800/300		SL WK
3	1	03 38W	+41 45	"	6.46	A0	1-5-6	"	400/180		SL WK
4	1	04 26W	+52° 00'	2	4.54	A7IV	9-9	"	40/15		(GUIDING) FINE
5	1	00 55W	-15 50	2-3	2.79	A.m	9-9	"	40/K		FINE
6	1	01 09W	+26 53	"	5.07	A0	9-5-5	"	200/130		SL WK
7	1	02 18W	+19 29	2"	4.30	A.m	9-9	Sp. Bin-Blu	40/19		FINE
8	1	01 54W	+2 06	2-3	3.74	A0II	9-9	Sp. Bin-Blu	40/15		FINE
9	1	01 30W	+12 55	2	1.50	A0I	6-6-6	"	400/180		(GUIDING) SL WK
10	1	00 30W	+10 17	1-2	4.30	A0II	9-9	"	40/15		FINE
11	1	00 28W	+38 58	1-2	4.35	A0II	6-6-6	"	400/230		(GUIDING) FINE
12	1	00 04W	+1 23	"	4.38	A0II	6-6-6	"	240/15		FINE
13	1	00 36E	+1 53	"	5.08	A2	6-6-6	"	200/85		U.S. WK
14	1	00 11W	+42 15	1	5.51	A0II	6-6-6	"	400/85		FINE
15	1	00 16W	+52 50	1	4.93	A1V	9-9	"	40/17		(GUIDING) FINE
3 14	1	01 27E	+48 09	1	5.02	A2	1-5-6	"	400/180		SL WK

Dome Temp. 57°F H=92 1/2

Transparency Conditions

48

[illegible]

Date June 9/8/61 Loc. 54 Observer T. Dine Julian Day _____

[illegible]

Dome Temp.

Transparency Conditions Some - good & huge

50

[illegible]

Dome Temp. 64°F 83% = H

Focus _____

Dome Temp. 66°F HPTG

Transparency Conditions

Very good - some clouds

very good HPTG

52

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02	47E	+75 30	1.2"	6.84	FD	6-5-6	SpBin-52	400/230			SL. WEAK
02	17E	+77 45	"	6.66	AD	6-6-6	"	400/180			FINE
03	17E	+58 18	1.3"	5.7	B67	6-6-6	"	400/280			FINE
00	22W	+25 24	2"	8.24	G8V	3-3-3 3-3-3	5 5 V	800/310			SL. WEAK
00	48W	+22 54	"	9.11	K05A	3-3-3 2-2-3	32V	800/330	variable		SL. WEAK
01	01E	+29 47	"	8.00	K05B	3-3-3 2-2-3	"	800/270	variable		V. SL. WEAK
01	04E	+19 47	1.3"	8.01	K05B	6-6-6	"	400/340	"		SL. WEAK
01	24W	+25 28	1.4"	8.14	K1III	6-6-6	"	400/250	cloud		SL. WEAK
01	17W	+38 14	2"	5.7	B67	6-6-6	SpBin-52	400/240	"		FINE
				3.73	K05B		cloud	400/			
							3/2	no filter			

53

* baked 16 hr plates

Date June 8-9/71 TUES-WED Observer GJ-In Julian Day 19710608.5[illegible]

Dome Temp. 50°F H=63%

Transparency Conditions EXCELLENT
(SEEING POOR)

54

[illegible]

55

Date JUNE 9/10 1971 WED/THU Observer G2 - R. Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34622	HD 82191	09 25.4	+27 50	412	IIa ⁺ *	13/0.5	53°F	20 47	21 18	A
34623	HD 139892	15 35.6	+36 58	"	"	13/0.7	"	21 25	21 35	B
34624	HD 176318	18 54.6	+38 07	"	"	13/0.7	"	21 41 ⁽²⁸⁾	22 01	C
34625	HD 153720	16 56.0	+75 34	"	"	13/0.5	60°F	22 08	23 04	A
34626	HD 154528	17 00.9	+77 48	"	"	13/0.5	"	23 08	23 45	B
34627	HD 176318	18 54.6	+38 07	"	"	13/0.7	58°F	23 52 ⁽²⁷⁾	00 19	C
34628	HD 180316	19 11.0	+27 46	"	"	13/0.5	"	00 23	01 05	A
34629	HD 186547	19 39.9	+13 04	"	"	13/0.5	"	01 09	01 37	B
34630	HD 192276	20 09.0	+47 26	"	"	13/0.5	56°F	01 42 ⁽¹¹⁾	02 15	C
34631	HD 176318	18 54.6	+38 07	"	"	13/0.5	"	02 19	02 30	A
34632	HD 197898	20 54.8	+41 33	"	"	13/0.5	"	02 34	02 50	B
34633	HD 201433	21 04.4	+29 48	"	"	13/0.5	"	02 53	03 02	C
34634	HD 214946	22 36.7	+44 29	"	"	13/0.5	54°F	03 06	03 39	A
34635	HD 176318	18 54.6	+38 07	"	"	13/0.5	"	03 42 ⁽¹²⁾	03 54	B
34635F1	focus test	out of focus		90	IIa 0	9	54°F			B
					* PLATES BAKED 16 HRS.					

Dome Temp. 54°F H=56%

Focus

Dome Temp. 50°F H=62%

Transparency Conditions EXCELLENT

(SEEING POOR, THEN BETTER)

Time	PR	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
5	F	04 43W	+27 38	1-3"	6.59	A0	6-6-6	SPEC. BIN	400/200		SL. STRONG
5	F	01 09 E	+36 50	2"	5.1	BT	6-6-6	"	400/280		VERY STRONG
4	L	04 02 E	+38 18	~2"	5.7	B6-7	6-6-6	"	400/280		STRONG
4	H	00 58 E	+75 28	2-3"	6.84	F0	6-6-6	"	400/320		SL. STRONG
5	F	00 19 E	+77 45	"	6.66	A0	6-6-6	"	400/200		SL. STRONG
1	L	01 44 E	+38 16	"	5.7	B6-7	6-6-6	"	400/280		STRONG
5	F	01 15 E	+28 00	"	6.69	B5	6-6-6	"	400/200		SL. STRONG
7	F	01 10 E	+13 17	"	5.1	BT	6-6-6	"	400/200		SL. STRONG
5	F	01 02 E	+47 44	"	6.6	B2	6-6-6	"	400/200	Broken: 2 per.	SL. STRONG
2	L	00 28 W	+38 18	1-2"	5.7	B6-7	6-6-6	"	400/200		STRONG
50	B	01 12 E	+41 53	"	6.0	BT	6-6-6	"	400/200		STRONG
28	L	01 10 E	+30 10	~1"	5.6 5.79	A0	6-6-6	Si Ap-Bin	400/200		STRONG
9	A	02 05 E	+44 55	"	7.12	A2	6-6-6	SPEC. BIN	400/150		FINE
2	B	01 53 W	+38 19	"	5.7	B6-7	6-6-6	"	400/200		STRONG
							3-3	no field			GOOD

Date JUNE 10/11 1971 THUR/FRI Observer G2-Ri Julian Day 171

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34636	HD 82191	09 25.4	+27 50	412	ILCO*	13/0.5	64°F	20 45	21 07	A
34637	HD 139892	15 35.6	+36 58	"	"	13/0.7	"	21 12	21 17	B
34638	HD 176318	18 54.6	+38 07	"	"	13/0.7	"	21 21 ⁽¹²⁾	21 33	C
34639	HD 153720	16 56.0	+75 34	"	"	13/0.5	62°F	21 40	22 05	A
34640	HD 154528	17 00.9	+77 48	"	"	13/0.5	"	22 10	22 25	B
34641	HD 172187	18 33.7	+43 08	"	"	13/0.5	"	22 31	22 44	C
34642	HD 180316	19 11.0	+27 46	"	"	13/0.5	"	22 49	23 11	A
34643	HD 180398	19 11.3	+12 56	"	"	13/0.3	"	23 16	23 50	B
34644	HD 186547	19 39.9	+13 04	"	"	13/0.5	"	23 56	00 16	C
34645	HD 192276	20 09.0	+47 26	"	"	13/0.5	60°F	00 21	00 53	A
34646	HD 176318	18 54.6	+38 07	"	"	13/0.7	"	00 58 ⁽¹²⁾	01 10	B
34647	HD 153720	16 56.0	+75 34	"	"	13/0.5	"	01 18	01 52	C
34648	HD 154528	17 00.9	+77 48	"	"	13/0.5	"	01 57	02 27	A
34649	HD 199892	20 54.8	+41 33	"	"	13/0.5	58°F	02 39	03 01	B
34650	HD 209333	22 01.1	+28 28	"	"	13/0.5	"	03 07	03 22	C
34650 F1	focus test	out of focus				9	56°F			

Dome Temp. 55°F H=52%

Focus 21 R

Dome Temp. 50°F H=54%

Transparency Conditions EXCELLENT
(SEEING TOO)

58

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
7	A	04 35 W	+27 38	~1"	6.59	AO	6-6-6	SPEC. BIN.	400/200		FINE
8	B	01 23 E	+36° 50	"	5.1	BTI	6-6-6	"	200/125		STRONG
9	C	04 27 E	+38 18	"	5.7	B6-7	9-9	"	200/125		SC. STR.
10	-	01 52 E	+75 32	"	6.84	FO	6-6-6	"	400/220		FINE
11	-	01 35 E	+77 45	"	6.66	AO	6-6-6	"	400/200		FINE
12	-	02 55 E	+43° 14'	"	6.26	A5	6-6-6	"	400/200		FINE
13	-	03 05 E	+28 00	"	6.69	B5	6-6-6	"	400/200		SC. STR.
14	-	02 26 E	+13 07	"	7.7	B3c	6-6-6	"	400/120		FINE
15	-	02 27 E	+13 18	1-2"	6.1	B8II	6-6-6	"	400/200		SC. STR.
16	-	02 20 E	+47 44	"	6.6	B3I	6-6-6	"	400/200	SOME HAZE	STR.
17	-	00 49 E	+38 18	~1"	5.7	B6-7	6-6-6	"	200/125		STRONG
18	-	01 56 W	+75 31	1-2"	6.84	FO	6-6-6	"	400/220		FINE
19	-	02 28 W	+77 45	"	6.66	AO	6-6-6	"	400/190	SOME HAZE	FINE
20	-	00 58 E	+41 52	"	6.0	B7II	6-6-6	"	400/200	HEAVY HAZE	SC. STR.
21	-	01 45 E	+28 51	"	5.53	AOI	6-12	"	400/65	" " EXT. SMT	FINE
							3-3	no filter			GOOD

Date Fri Sat June 11/12 1971 Observer Bl - Ri Julian Day 2438111

[illegible]

Dome Temp. 52°F

Transparency Conditions Some Clear - Patch Cloud (6000) ⁶⁰

[illegible]

61

Date Mon-Tue 14/15 June '71 Observer Blk-R/Red-R Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34657	HD 104451	11 56.6	+30 06	G-12	Da-0	20/3	68°F	21:08	23:27	A
34658	HD 141451	15 44.1	+13 01	"	"	13/5		23:31	00:15	B
34659	U Vul - D1850009	17 30.2	+20 57	"	"	13/5		00:25	01:32	C
34660	B Sicel - No.	18 42.1	-05 47	"	"	13/5		02:38	03:51	A
34661	71 Vul - HD 185029	19 57.9	00 58	"	"	13/5		02:57	03:10	B
34662	HD 185045	20 04.7	+14 57	"	"	13/5		03:15	03:24	C
34663	HD 192635	20 11.0	+25 17	"	"	"		03:27	03:34	A
34663F1	focused	0707/min		QO	Da-0	9	61°F			B
34663 T1	calibration step wedge for plates									

15 June, 71

Dome Temp. ...56°F... 70%

Transparency Conditions Excellent.....

42

[illegible]

Date Tue Wed 15/16 June 71 Observer JW - RJ Julian Day 2443880

[illegible]

Dome Temp. 55 55 55

Transparency Conditions

47

[illegible]

$b = 4 \times 10^{-2}$

Dome T
Focus . .
Dome T

Hour	Start	End
01	00	01
02	01	02
03	02	03
04	03	04
05	04	05
06	05	06
07	06	07
08	07	08
09	08	09
10	09	10
11	10	11
12	11	12
13	12	13
14	13	14
15	14	15
16	15	16
17	16	17
18	17	18
19	18	19
20	19	20
21	20	21
22	21	22
23	22	23
24	23	24

Date Thurs. Fri. June 17/18/71 Observer Bln - Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34679	HD130741	14 45.3	-15 37	G-12	IIa-06	13/5		20:45	20:47	A
34680	HD107225	12 15.3	+27 11	"	"	13/3		20:52	22:58	E
34681	HD103423	11 49.9	+47 02	"	"	13/5	69°F	23:01	23:45	C
34682	HD124675	14 09.9	+52 15	"	"	"		23:50	23:54	A
34683	HD153751	16 10.2	+82 12	"	"	"		00:02	00:10	C
34684	HD170073	18 22.5	+27 45	"	"	"		00:15	00:21	C
34685	HD124897	14 11.1	+19 42	"	"	"	67°F	00:26	00:27	A
34686	HD130109	14 41.2	+2 19	"	"	"		00:32	00:36	C
34687	HD141426	15 44.1	+12 01	"	"	"	66°F	00:42	01:40	C
34688	HD139292	15 35.6	+36 12	"	"	13/7		01:44	01:58	A
34689	HD153614	16 49.5	+10 20	"	"	13/5		02:01	02:05	B
34690	HD187459	19 45.0	+22 11	"	"	"		02:10	02:32	C
34691	HD195905	20 29.3	+47 53	"	"	"		02:34	03:14	A
34692	HD201433	21 04.4	+29 48	"	"	"		03:18	03:30	C
34693	HD199122	20 42.5	+36 07	"	"	"		03:32	03:34	A
34693 PA	Faint			"	"	13	63°F			B

Dome Temp. 64°F H=64%

Transparency Conditions Good - some v. lt. cirrus

68

Focus

Dome Temp. 59° H=78%

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		00 36E	-15 52	2-3	2.89	A _{III}	10-10	Sp. Bin-Blu	40/16		FINE
		04 05W	+26 51	1-2	6.72	gK2	7-7-7	"	200/500	This plate is broken in half. Please develop anyway.	POOR BROKEN
		05 17W	+46 43	2	6.46	A0	7-7-7	"	400/180	broken 2pc	BROKEN FINE
		03 06W	+52° 00	1-2	4.74	A _{IV}	10-10	"	40/16	(DOUBLE EXP. FOR FC LINES)	FINE
		00 45W	+22 10	2-3	4.28	G _{III}	10-10	"	40/19		FINE
		00 37E	+58 49	1-2	4.93	A _{IV}	10-10	"	40/16		FINE
		03 39W	+19 25	2"	1.00	K2 II _p	10-10	std vel	40/19		FINE
		03 19W	+ 2 06	3	3.74	A0 V	10-10	Sp. Bin-Blu	40/16		FINE
		03 19W	+12 54	2	2.80	A0	7-7-7	"	400/190	Ecl.	FINE
		03 45W	+16 49	1-2	5.1	B _{IV}	7-7-7	Sp. Bin-Blu	200/140		SL. STR
		02 39W	+10 18	1-2	4.30	B _{IV}	10-10	Sp. Bin-Blu	40/16		(DOUBLE EXP.) SL. STR
		00 11W	+33 26	1-2	4.66	B _{IV}	7-7-7	"	400/180		FINE
		00 10W	+48 12	"	4.72	B2	7-7-7	"	400/185		SL. STR
		00 10E	+30 07	"	5.6	A0	10-10	"	200/85		SL. STR
		00 15W	+36 28	"	4.42	B _{IV}	10-10	"	40/15	WEAK FOREMP.	SL. STR
							8/3	no filter			GOOD

* *Adiantum* sp.

Dome
Focus
DomeHour A
Ea

Dome Temp. 56°

Transparency Conditions

70

Focus

Dome Temp. 60°

H = 77%

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
5	L	0035E	-15 50	2"	2.89	Am	12-12	Sp. 31-12	40/16		(GUIDING) SLOW
		0005W	+17 25	2	1.30	K211	12-12	12/1 Std	40/20		FINE
		0011W	+17 25	2	1.30	K211	12-12		42/99	For K ₂ calibration	VERY STRONG
	L	0450W	+29 48	1-2	2.7	gF3	7-8-8	Sp. 91-121	800/240	Cut short - underexposed	* (GUIDING) FINE
		0204W	+12 04	"	4.80	AD	8-8-8	"	400/190	Some cloud - more noise	FINE
	C	0017E	+20 21	2"	7.8- 9.0	F8- K0	8-8-8	Cephoid-Rm	800/350 ⁺		FINE
	A	0153W	+01 21	1-2'	7.29 -9.08	F8- K0	7-8-8	"	800/180	May 15th (cut short) sail	* SLOW **
										*overdevelop please	
										** HIGH BACKGROUND	POOR

Date JUNE 19/20 Sat-Sun Observer Dy-Tu Julian Day 194

[illegible]

Dome Temp. 65° F 78%

72

[illegible]

Date June 20/21/71 Sun-Mon Observer McU-To Julian Day

[illegible]

Dome Temp. 75 5580

74

[illegible]

Date June 21 - 22 / 1971 Observer Has-Ty Julian Day 2435000

[illegible]

Dome Temp. 55 70%

Transparency Conditions Excellent - Some doubt

[illegible]

Date Tue/Wed 22/23 June 71 Observer Blu-Tu/C.F. Julian Day

[illegible]

Dome Temp. 60° H: 64-70

Transparency Conditions *Excellent*

78

MIRROR COVER LEFT DISK (9:30 am June 23rd)

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3	1	00 17 E	-15 51	2	289	Am	12-12	Sp. Bin-Elu	40/16		SL STR
2	1	02 46 W	+26 54	1.5	6.72	gK2	8-8-8	"	200/150	Ex. mag. mon. not counting	VERY STRONG
1	1	04 03 W	"	1-2	6.72	gK2	9-8-8	"	200/100	Ex. mag. mon. not counting	FINE
2	1	05 05 W	+12 54	1	6.80	Am	7-8-8	"	400/140	"	SL STR
1	1	05 05 W	+10 19	1-2	4.30	Am	12-12	"	40/16	"	(GUIDING) SL STR
2	4	02 29 E	+53 27	1	6.26	Am	8-8-8	"	400/-	"	(GUIDING) SL STR
1	1	02 45 E	+32 10	1	6.32	Am	7-1-8	"	440/-	"	SL STR
0	1	00 37 W	+01 21	1.2"	7.21- 9.08	F0- K0	8-8-8	Cybernet/1500	100/-	"	FINE
0	1	00 37 E	+35 34	1"	5.5- 6.70	F0- G1	8-8-8	Cybernet/1500	200/-	"	FINE
1	1	00 51 W	+29 16	1.2"	6.8- 7.66	F0- G1	8-8-8	"	200/-	"	
4	1	00 10 W	+28 13	1"	5.83- 6.70	F0- G1	8-8-8	"	200/-	"	
1	1						3/3	900/1500			COLD

2 Winter Song

Date Sat. Sun. June 26/27/71 Observer Dy-Tn Julian Day _____

[illegible]

Dome Temp. 60°F H-027

Transparency Conditions *Excellent - 20/20*

80

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
6	A	01 50W	+28 20	1"2"	6.4	F87 ₂	8-8-8	RCB	200/130	~~broken etc.~~	~~GOOD~~
7	C	01 35E	-05 39	2"	6.3- 8.6	GO- K0	8-8-8	RV Tau	400/290	maybe fog?	FINE
7	B	03 00W	+22 19	2"-3"	6.4	F01 ₂	8-8-8	RCB	200/130	(SOMEWHAT)	FINE
8	C	01 50W	+21 54	2"	7.4- 9.6	F2- K4	8-8-8	RV Tau	800/400		FINE
4	A	00 52W	+16 22	"	5.77 -7.12	F6J6 G-76	1-8-8	Cepheid-Ru	300/130		FINE
4	B	01 53W	+29 12	"	6.8- 7.66	F0- G1	1-8-8	"	400/180		FINE
	A	00 00	+09 49		3.92	K2J6	12-12	HD 101	40/21		FINE
							3/3	not/for			GOOD
17		The com 2/9.0 min @ 60°E		(24000 x 0)						1st crop of material noted at dawn	
PERHAPS IN THE FUTURE, BROKEN PLATES SHOULD USE 1 SLOT PER PIECE, SO THEY CAN'T SLIDE OVER ONE ANOTHER & Jam. - * JAMMED IN PLATE BOX - IMPOSSIBLE TO REMOVE IN THE FARR											

Date Mon Tues June 28/29/41 Observer Hns - In Julian Day 2444111[illegible]

Dome Temp.

Transparency Conditions 12

82

[illegible]

Dome Temp

Focus ..

Dome Temp

Hour Angle
End

Transparency Conditions

Dome Temp. 70

Transparency Conditions

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 30 W			2"	1.29	K2TP	NEON 35	IR Test		30 sec exp	
01 36 W			"	"	"	"	"		2 min exp	
00 44 W	+34 02		2"	7.71	212	8-8	Yakovlev	400/250		FINE
01 06 W	"		"	5.20	577	8-8	"	200/140		FINE
00 42 W	+39 49		"	2.11	Em	22-2	"	100/90	set 41 0.1/0.1 2:20	
34722 - 23 : 4 min	(@ 65°K in D-19							(INC 1 E1)		
34724 - 26 : 9 min	(@ 65°K in MCP-2							(290C 1 K0)		

Date Wed. Apr. 22, 1941 Observer Hoy - Bl. - C. Julian Day 19410112

[illegible]

Dome Temp.

Transparency Conditions

82

[illegible]

Date June 2 - 1972 Observer MOU - R Julian Day 171

[illegible]

Dome Temp. 67.5 low

Focus

Dome Temp. 60°F

Transparency Conditions

Transparency Conditions *High corpus - gives extraction & poor* 88

Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01		21 W	-15 50		2.89	Am	12-12	SPEC. BIN-BIN	40/20		FINE
02		16 W	+29 20	~3	6.4	FAB	8-8-8	R C-B-JDF	400/200	thin lines	FINE
02		01 W	+36 47		5.1	BFI	8-8-8	SPEC BIN-GR.	40/20	long dead	FINE
02		20 W	+22 14	2.3	5.51	B6I	8-8-8	SPEC BIN-BIN	200/100	long dead	FINE
01		42 W	+29 47	~2"	8.10	K0II	4-4-4	SSV	800/300	intermittent dead	FINE
01		45 W	+29 27	~2"	8.09	C1III	4-4-4	SSV	800/300	" "	FINE
00		17 E	+25 53	~2	8.05	K0II	4-4-4	SSV	800/300	intermittent	FINE
02		15 W	+10 39		4.5	K3II	12-12	STD VEL	40/30		FINE
		center point					3-3	no file			SC. CENTRE TO RED

Date Feb 23 1971 Observer M.S.-R. Julian Day 255

[illegible]

90

[illegible]

[illegible]

Dome Temp. 60°F 60%

Transparency Conditions

Focus

Dome Temp. 56°F 72%

92

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		2° 05E	+28° 20'	~3"	6.4	P8E	8-8-8	RCNE	200/130	thin lines	FINE
		01° 15E	+21° 58'	"	7.4	P8E	8-8-8	RCNE	500/410		FINE
		01° 05E	-05° 37'	3	6.5	P8E	8-8-8	"	700/200		FINE
		00° 21W	+36° 50'	2	5.1	P8E	8-8-8	SPEC. 8N	200/210		STRONG
		00° 43W	-06° 04'	2	7.4	P8E	8-8-8	"	200/200		FINE
		00° 55E	+16° 40'		7.4	P8E	8-8-8	"	200/100		FINE
		01° 27W	+01° 22'		7.4	P8E	8-8-8	"	200/200	broken in half	WEAK
		01° 27W	+20° 22'		7.4	P8E	8-8-8	"	200/200		SL. WK
		00° 09W	+29° 16'	3	7.4	P8E	8-8-8	"	200/130		FINE
		00° 20E	+16° 52'		7.4	P8E	8-8-8	"	200/300		FINE
							3-3	file		Shaded Box no 1	GOOD

Date 20th July 1971 Observer B. R. Julian Day

[illegible]

Dome Temp. 65°F 65%

Focus

Dome Temp. 61.0 70%

Transparency Conditions 20.00 - much haze

94

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
45		00°29W	-15° 50	3	5.07	1.0	12-2	5.12W-11.0	40/18		SL. WK
54		00°40W	+02° 05	3	3.71	1.0	12-12	"	40/18		SL. WK
6		04°11W	+22° 54	3	6.72	9k2	8-7-9	"	20/90		SL. WK
16		00°05W	+92° 10'	2	4.28	G 5.0	12-12	"	40/23		U.S.C. WK
48		03°00W	+53 01	2	4.74	A 1.1	13-12	"	80/36		SL. WK
58		03°23W	-19 26"		1.30	12.11	12-12	"	40/35	Don't play longer	(GUIDING) FINE
							neon with ground	2.0m		closed 00:55	
			in-in/out.out			4.1m/4m					

Date Tues. July 27/71Observer W. J. R.

Julian Day

[illegible]

Dome Temp. 52°

Focus

Dome Temp. 53.7°

Transparency Conditions 100

96

[illegible]

Date Wed. Thrs July 7-8/71 Observer HB-Tn Julian Day 171.5[illegible]

Date Wed-Fri July 29-31 Observer Mc-Jen Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34762	HD170200	18 ^h 23 ^m .1	+06° 08'	G12	Ilford	13/5	77°F	21 07	22 05	B
34763	HD180553	19 11.9	+27 17	G12	Ilford	12/5	"	22 09	22 59	C
34764	HD169578	18 20.2	+05 02	G12	Ilford	13/5	"	23 05	23 59	B
34765	HD193964	20 18.0	+61 56	"	"	"	76°F	00 09	00 27	C
34766	HD182248	19 18.7	+26 04	"	"	"	"	00 35	00 43	A
34767	HD170200	18 23.1	+06 08	"	"	"	"	00 47	01 19	B
34768	HD180553	19 11.9	+27 17	"	"	"	75°F	01 22	02 00	C
34768	11	calibration	step wedge for plate.	34762 - 34768				9 July 1971		

(10)

Date Fri-Sat 9/10 July 1971 Observer Rh-Ja Julian Day 171.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34769	HD 130941	14 45.4	-15 37	5-12	IL0-D	13/5		20:42	20:44	A
34770	HD 130107	14 41.2	+2 19	"	"	"	77°F	20:51	20:53	B
34771	HD 107325	12 15.3	+27 11	"	"	13/3		20:59	21:33	C
34772	HD 102423	11 49.9	+47 02	"	"	15/5	78°F	21:43	22:29	A
34773	HD 124675	14 29.9	+52 15	"	"	"		22:44	22:48	B
34774	HD 134897	15 11.1	+19 42	"	"	"		22:50	22:55	C
34775	HD 141400	16 44.1	+13 01	"	"	11/5		22:59	23:59	A
34776	HD 153014	16 49.3	+10 20	"	"	"		00:03	00:11	B
34777	HD 164522	17 36.7	+1 18	"	"	"		00:14	00:24	C
34778	IC 507	18 42.1	-5 49	"	"	13/3		00:27	01:17	A
34779	HD 172178	19 58.5	+1 40	"	"	13/5		01:19	01:57	B
34780	HD 201433	21 04.4	+29 47	"	"	"		02:03	02:17	C
34781	HD 170072	15 22.5	+59 45	"	"	"		02:22	02:36	A
34782	HD 199611	20 53.5	+50 31	"	"	"		02:40	03:08	B
34783	HD 192909	20 12.4	+47 24	"	"	"		03:11	03:25	C
34784	HD 199177	19 53.8	+40 06	"	"	"		03:27	03:38	A

Dome Temp. 69°F H=5795

Focus

Dome Temp. 50 H=603

Transparency Conditions

Lot of clouds - 5 to 10
Patchy clouds - 10 to 100

102

Time T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		00 46W	-15 48	3	2.39	Am	12-12	Sp. Bin-B	40/18		(GUIDING) FINE
		01 00W	+2 06	"	3.74	A0V	12-12	"	40/20		FINE
		04 06W	+26 56	2-3	6.70	K2	8-8-8	"	200/100		FINE
		05 36W	+46 38	2-5"	6.46	A0	8-8-8	"	200/100		SL. WK
		03 28W	+52 02	2	4.74	A7V	12-12	"	40/20		(GUIDING) FINE
		03 22W	+19 26	2	5.30	A3III	12-12	R/SHD	40/26		FINE
		03 04W	+12 55	2-3"	6.80	A0	8-8-8	Sp. Bin	400/200		(GUIDING) SL. WK
		02 10W	+10 19	3-5"	4.30	A8V	12-12	"	40/20		FINE
		01 15W	+1 25	2-4"	4.42	A1V	12-12	"	40/20		V.S. WK
		01 21W	-5 40	2-3	6.3- 5.6	GO- K0	8-8-8	RVTm/ny	700/200	Cloud	BROKEN SL. WK
		01 47W 01 53W	+1 54	"	5.68	A2	8-8-8	Sp. Bin-B	200/100	"	FINE
		00 01W	130 11	2	5.6	A0	8-8-8	"	200/100		FINE
		03 05W	+48 51	2-3"	4.93	A1V	12-12	"	40/20		SL. WK
		01 05W	+50 41	2"	5.72	F0	8-8-8	"	200/130		FINE
		02 02W	+49 41	2	5.72	K0+ A2	8-8-8	Atm. E.L.	200/160		SL. WK
		02 35W	+44 42	2	5.25	A8V	12-12	Sp. Bin-B	200/100		FINE

22

Date Cont. July 1961 Observer Julian Day[illegible]

Transparency Conditions

104

Dome Temp. 50°F 44.5°C

[illegible]

Date 1971 July 17/11 Sat/Sun Observer McV-T2 Julian Day 2440080.5

[illegible]

Dome Temp.

106

[illegible]

Date 12/15/12 S. 700 Observer M. J. T. Julian Day 1744.5

[illegible]

Dome Temp. 53°F H=57%Transparency Conditions Excellent

108

Focus

Dome Temp. 58°F H=60%

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02	-	00 23W	+36 49		5.1	B7V	2-2	SSB-SE	200/120		SL STR
03	-	00 50W	+23 20	2-3	6.4	B7V	2-12	RCB-JDE	200/130		FINE
04	-	01 39W	+25 26	2"	8.24	B7V	8-8-8	SSV	300/340		
05	-	02 15W	+26 56	2-3"	8.14	K0 III	8-8-8	"	800/330		FINE
06	-	02 55W	+25 33	"	8.14	K1 III	8-8-8	"	800/330		FINE
07	-	03 40W	+38 13	"	5.7	B6-7	8-8-8	SSB-MET	400/200	field drawn	FINE
08	-	00 47W	+29 29	1-2"	3.04	K III	8-8-8	SSV	300/340		FINE
09	-	01 04W	+28 13	2"	3.36	ESSI	8-8-8	"	800/300		FINE
10	-	00 20W	+28 35	1-2"	8.14	K III	8-8-8	"	800/300		FINE
11	-	00 13W	+25 55	3"	8.05	K0 III	8-8-8	"	400/150		FINE
12	-	00 35E	+28 37	"	7.02	K III	8-8-8	"	400/150	calculated by hand	FINE
							5/3	40 filter		Clear:	Good
										plates in case for	
										as Saturday night	

Date 12/15/76 1976 Observer 31 An Julian Day

[illegible]

Dome Temp. 13° H=55%

Transparency Conditions

Fair - Poor 12-14 Clouds 110

Focus

Dome Temp. 10° H=49%

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		01 23W	+12 26	3	1.2	AST	12-12	R1 St.	40/24		FINE
		01 23N	+12 48	2-3	2.79	Am	12-12	Sp. R1 - DL	40/20+	Cloud	FINE
05		01 23W	+12 26	2"	3.74	AOV	12-12	"	40/20	"	SL. WK
04		01 10W	+12 55	3	6.80	AO	8-8-8	"	400/210	NUM 3775 HARD TO MAKE OUT	SL. WK
		01 43W	+28 21	2-3	6.4	F810 ₁₀	8-8-8	RC R-JDF	200/120		FINE
00		00 50W	+10 18	2-3	4.30	RST	12-12	Sp. R1 - DL	40/20	Cloud	FINE
00		00 05E	+1 24	2"	4.46	A1T	8-8-8	"	40/20		FINE
00		00 23W	+1 53	2-3	5.08	AO	8-8-8	"	200/100	Clouds 22:15-22:30	SL. WK
00		01 05E	+30 11	"	5.76	AO	8-8-8	"	200/100	Clouding FINE	SL. WK
00		00 02E	+15 12	1	5.04	A2B	8-16	"	80/40		U.SL. WK
00		00 06E	+12 05	1-2	5.73	139II	8-8-8	"	200/100		U.SL. WK
00		00 05W	+43 22	1-2	5.16	139II	8-8-8	"	200/100		FINE
00		01 23W	+33 26	1-2	5.66	139II	8-8-8	"	400/200	Cloud at 02:15	FINE
							8/10	no filter		Closed up 12	GOOD

Date 13/14

Observer.....

Julian Day

[illegible]

113

Date 14/15 July Wed/7 hrs Observer HS-Tn Julian Day

[illegible]

Dome Temp. 62°F, H = 64%

Transparency Conditions

very good - recorded in horizon ¹¹⁴

Focus

Dome Temp. 57°F/61%

Doc. Group - trying hard to move at some angle

Time G.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 06 E	+06 18	2-3"	5.7	B8 III	8-8-8	B2-9 Binary	200/120			FINE
02 18 E	+27 30	"	6.3	B5 IV	8-8-8	"	200/120			FINE
02 40 E	+5 10	"	6.5	B8 V	8-8-8	"	200/105			SL. WK
02 38 W	+22 20	"	6.4	F9 IV	8-8-8	PCP 10F	400/260			SL. WK
01 30 E	+62 14	2"	5.6	B9 V	8-8-8	B8-9 Binary	200/120			FINE
02 45 E	+10 38	"	3.5	K III	12-12	Std Vel.	40/28			SL. WK
00 48 W	+14 02	"	6.1	B8 V	8-8-8	B8-9 Binary	200/120			FINE
01 06 W	+29 30	"	8.04	K1 IV	8-8-8	55 V	800/375			SL. WK
02 43 W	+66 16	2.3"	5.7	B8 III	8-8-8	35-9 Binary	200/120		~ 1" in 35 mag	
02 42 W	+27 31	2.4"	6.3	B5 IV	8-8-8	"	200/120			FINE
02 00 W	+62 15	2.3"	5.6	B9 V	8-8-8	"	200/120			FINE
00 25 E	+45 25	2"	6.27	B9 (III)	8-8-8	"	200/120			FINE
					3/3	42 F1/IV			Broken	DISCARDED
									Anson - observe in horizon	
									fresh plates. To	

Date 15/16 July 1971 Thurs/Fri Observer Hb-Ta Julian Day 19710715

[illegible]

Dome Temp. 64°F / $H=64\%$

Transparency Conditions fair - scattered clouds

1/6

Focus

Dome Temp. 60 63

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1		04 56E	+06 19	1"-2"	5.7	B8 III	8-8-8	B8-9 Biny	200/130		FINE
2		02 05E	+22 30	"	6.3	B5 II	8-8-8	"	200/120		FINE
3		02 42E	+45 15'	~1"	5.6	B9 V	8-8-8	"	200/120	(J.L. GARDNER)	FINE
4		00 08W	+5 10'	"	6.5	B8 V	8-8-8	"	200/130	cloud	FINE
5		01 05E	+10 40	"	3.9	K3 II	12-12	std 401	200/170	cloud	FINE
6		00 51W	+14 32	1'-2"	6.1	B3 V	8-8-8	B9-9 Biny	200/120	cloud	FINE
7		01 47W	+08 17	"	5.7	B8 III	8-8-8	"	200/120	(")	FINE
8		01 40W	+27 31	"	6.3	B8 III	8-8-8	"	200/120		FINE
9		03 24W	+35 10	2"	6.5	B8 V	8-8-8	"	200/100		SC WIK
10		01 58'W	+62 15'	2" 5"	5.6	B9 V	8-8-8	"	200/120		FINE
10 July 1971 - 7h UT - 2/9.0 min @ 60°F & 200/110											
							20 S.			(4 min in 2-18)	only 1 side showing
							125			" " "	OK

Visitors: Dy + Chambers

Ben.
Hed

Date Sat Sun July 17-18/71 Observer Tn Julian Day 171

[illegible]

Dome Temp.

Transparency Conditions

118

[illegible]

Date Sat-Mon July 18-19/71 Observer B/-Tn Julian Day 174

[illegible]

Dome Temp. 60° H=53%

Transparency Conditions

Cloudy

120

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 22W	$-15^{\circ}48'$	2.3"	2.74	Am	12-12	S. B. - E. N.	200/115	cloudy	SL. WK
20 July 1971									
N.W.P. 2/9.0 min @ $68^{\circ}K$ / 240 LK0									
"	15	"	"	"	"	"	"	"	"

NEWTONIAN

p121

Plan 1. u.c.c.

NR

Date

July 17-20/71

Observer

S. O. T. H.

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34846	NGC 5704	15 17.3	+02 12	NW	1030D	2441152	617	21 47	21 50	1
47	6355	17 24.2	-5 02	"	"		632	22 06	22 14	2
48	6535	18 02.3	-0 18'				643	22 20	22 32	1
—	6556	17 21.9	+17 47							
—	6773	16 15.3	-20 54'							
49	K.A. 61	17 01.6	29.51		1030D		677	23 14 ¹²	23 15 ¹²	1
50	"	"	"		"		678	23 18 ¹⁴	23 17 ¹¹	2
51	"	"	"		"		682	23 20 ⁵⁸	23 22 ⁵⁵	1
52	"	"	"		"		685	23 24 ⁴¹	23 26 ⁴⁰	2
53	"	"	"		"		687	23 28 ¹⁵	23 31 ¹⁵	1
54	"	"	"		"		691	23 35 ²⁵	23 36 ²³	2
55	"	"	"		"		695	23 38	23 43	1
56	"	"	"		"		700	23 45 ¹⁰	23 50 ¹⁰	2
57	"	"	"		"		706	23 52	00 00	1
58	"	"	"		"		713	00 02	00 10	2
59	"	"	"		"		720	00 12 ⁰⁰	00 22 ⁰⁰	1

Dome Temp. 56°H = 86%Transparency Conditions Hazy

122

Focus

Dome Temp.

g Time ST	PR	Hour Angle End	Developer Declination	Seeing	Ptg. Mag.	EX Sp.	Comp.	FILTER Program	Exp. Mtr.	REMARKS	Quality
		0204W	D17	—	—	3 ^m					
		0205W	"	S	—	8 ^m				Very faint guide star	
		0206W	"	S	—	12 ^m					
			—	S	—					Cluster invisible	
			—	S	—					also invisible	
		0148W	D17	—	—	1 ^m		VH		on S Hor	
		0148W	MWP2	—	—	1 ^m		V			
		0153W	D17	—	—	2 ^m		V			
		0153W	MWP2	—	—	2 ^m		V			
		0201W	D17	—	—	3 ^m		V			
		206W	MWP2	—	—	3 ^m		V			
		213W	D17	—	—	3 ^m		V			
		220W	MWP2	—	—	5 ^m		V			
		230W	D17	—	—	8 ^m		V			
		240W	MWP2	—	—	8 ^m		V			
		252W	D17	—	—	10 ^m		V			

123

Date _____

Observer

Julian Day

[illegible]

Transparency Conditions

Excellent

124

Dome Temp.

[illegible]

NEW TONIAN

125

Date Tues-Wed July 20-21 1971 Observer S Ce Tn H. U. Belmont, Shara Julian Day _____

Plate No.	Object	R.A. 1900 1971	Declination 1900 71	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34870	NGC 5904	15 17.0	+02 12	Newt	103a0	1153	~~644~~	21 39 ⁰⁰	21 42	1
34871	" 6366	17 26.2	-5 02	"	"		~~621~~	21 49 ⁴⁵	21 57 ⁴⁵	2
34872	6535	18 02.3	-0° 18	"	"		~~630~~	22 02 ¹⁰	22 12 ¹⁰	1
34873	6093	16 15.3	-22° 54'	"	"		~~643~~	22 22 ²⁰	22 28 ²⁰	2
34874	5904	15 17.0	+02° 12	"	"		~~653~~	22 38 ¹⁰	22 41 ¹⁰	1
34875	KA #61	17 01.6	+29 51	"	103aD		~~670~~	23 04 ¹⁴	23 05 ¹⁴	2
34876	"	"	"	"	"		~~673~~	23 08 ³⁰	23 09 ²⁰	1
34877	"	"	"	"	"		~~676~~	23 13 ⁰⁵	23 15 ⁰⁵	2
34878	"	"	"	"	"		~~680~~	23 19 ¹⁵	23 20 ¹⁵	1
34879	"	"	"	"	"		~~685~~	23 24 ²⁷	23 28 ²⁷	2
34880	"	"	"	"	"		~~690~~	23 31 ³⁵	23 35 ³⁵	1
34881	"	"	"	"	"		~~697~~	23 39 ⁴⁰	23 47 ⁴⁰	2
34882	"	"	"	"	"		~~705~~	23 51 ³¹	23 59 ³¹	1
34883	"	"	"	"	"		~~714~~	00 01 ³⁰	00 13 ³⁰	2
34884	"	"	"	"	"		~~721~~	00 16 ⁰⁰	00 28 ⁰⁰	1
34885	NGC 7073	21 23.6	+12 02	"	103a0		~~737~~	00 37 ⁴⁰	00 45 ⁴⁰	2

Dome Temp. *60°F* H. *7670*Transparency Conditions *Excellent - some cloud*

Focus

*Cloud in first half hour**126*

Dome Temp.

Time T.	P.H.	Hour Angle End	DEVELOPER Declination	Guide Scale	Ptg. Mag.	EX Exp.	Comp.	Filter Exposure	Exp. Mtr.	REMARKS	Quality
2	1	0200W	D19	CT	—	3 ^{min}		Nil		Counting guide	
7	2	0007W		S	—	8 ^{min}		"		S	
2	1	0015E		S	—	10 ^{min}		"		S	
2	2	0149W		S	—	6 ^{min}		"		Pack Edmund guides	
4	1	0300W		CT	—	3 ^{min}		"			
5	2	0140W	D19	CT	—	1 ^{min}		B V		Focus star SHER	
9	1	0143W	MWP2	"	—	1 ^{min}		B V		wrong filter recorded	
5	2	0149W	D19	"	—	2 ^{min}		B V		V filter was used	
0	1	0154W	MWP2	"	—	2 ^{min}		B V		corrected Nov. 16, 1971	
2	2	0202W	D19	"	—	4 ^{min}		B V		Counts	
5	1	0209W	MWP2	"	—	4 ^{min}		B V			
1	2	0222W	D19	"	—	8 ^{min}		B V			
1	1	0233W	MWP2	"	—	8 ^{min}		B V			
3	2	0247W	D19	"	—	12 ^{min}		B V			
3	1	0302W	MWP2	"	—	12 ^{min}		B V			
0	2	0107E	D19	"	—	8 ^{min}		B V			

NEWTONIAN

127

Date Observer Julian Day

[illegible]

Transparency Conditions

128

Dome Temp. ... 56° F ... 74° F

[illegible]

129

NEWTONIAN

Date 1971 July 21-22

Observer CT-S-MEU-Tn^{SALMON} Julian Day

Plate No.	Object	R.A. 1971 ~~1900~~	Declination 1971 ~~1900~~	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34895	NGC 5904	15 17.0	+02 12	newt	103aD	1154	~~599~~	21 21 ²⁵	21 24 ²⁵	2
34896	" 6366	17 26.2	-5 02	"	"		~~609~~	21 32 ⁰⁵	21 42 ⁰⁵	1
34897	" 6535	18 02.3	-0 18	"	"		~~619~~	21 47 ⁰⁰	21 57 ⁰⁰	2
34898	" 6426	17 43.5	+03 12	"	"		~~630~~	22 02 ¹⁵	22 12 ¹⁵	1
34899	NGC 5904	15 17.0	+02 12	"	"		~~646~~	22 29 ¹⁸	22 31 ¹⁸	2
34900	" 6535	18 02.3	-0 18	"	"		~~657~~	22 40 ⁰¹	22 52 ⁰¹	1
34901	" 6712	18 51.3	-8 48	"	"		~~667~~	22 57 ⁰⁰	23 05 ⁰⁰	2
34902	6838	19 52.2	+19 40	"	"		~~676~~	23 10 ⁴⁰	23 19 ⁴⁰	1
34903	NGC 6779	19 15.4	+30 07	"	"		~~692~~	23 32 ⁰⁵	23 41 ⁰⁵	2
34904	" "	"	"	"	103aD		~~700~~	23 43 ⁵²	23 52 ⁵²	1
34905	" 7078	21 28.6	+12 02	"	103aD		~~711~~	00 00 ³⁶	00 08 ³⁶	2
34906	" "	"	"	"	"		~~728~~	00 24 ¹⁹	00 32 ¹⁹	1
34907	"	"	"	"	"		~~736~~	00 35 ³⁰	00 43 ³⁰	2
34908	"	"	"	"	"		~~743~~	00 46 ³⁰	00 54 ³⁰	1
34909	"	"	"	"	"		~~751~~	00 57 ⁰³	01 05 ⁰³	2
34910	NGC 6779	19 15.4	+30 07	"	"		~~762~~	01 14 ²²	01 20 ⁰⁰	1

Dome Temp. 63°F H=710

Transparency Conditions Hazy - Cirrus cloud

30

Focus

Dome Temp.

low stratus for a while
around 1 hrs.

ing Time SST.	PR	Hour Angle End	Developer Development	Guide Seeing	Ptg. Mag.	Ex Exp.	F. LTR Comp.	Program	Exp. Mtr.	REMARKS	Quality
24 ⁰⁰	2	01 46W	D19	CT	3 ^m	Phil					
42 ⁰⁰	1	00 05E	"	S	10 ^m	"					
57 ⁰⁰	2	00 26E	"	S	"	"					
1 ⁰⁰	1	00 08W	"	S	"	"					
21 ⁰⁰	2	02 53W	"	CT	2 ^m	"	UNGUIDED			Focus Star 3004	
42 ⁰⁰	1	00 29W	"	S	12 ^m	"				(Didn't change much) S gain	
57 ⁰⁰	2	00 06E	"	S	8 ^m	"				Red grid	
1 ⁰⁰	1	00 59E	"	S	4 ^m	"				"	
21 ⁰⁰	2	00 06W	"	CT	9 ^m	B				Focus Star 5 1g! A	
52 ⁰⁰	1	00 17W	"	CT	9 ^m	V					
5 ⁰⁰	2	01 40E	"	CT	8 ^m	V					
32 ⁰⁰	1	01 17E	"	CT	8 ^m	B					
43 ⁰⁰	2	01 06E	"	CT	8 ^m	B					
57 ⁰⁰	1	00 55E	"	CT	8 ^m	B					
05 ⁰⁰	2	00 43E	"	CT	8 ^m	B					
1 ⁰⁰	1	01 44W	"	CT	9 ^m	B					

NEWTONIAN
COPY #2

July 22

Observer

Julian Day.

[illegible]

Dome Temp.

Transparency Conditions base increasing toward down 132

[illegible]

Date Fri/Sat July 23/24 '71 Observer BLU Julian Day

[illegible]

Dome Temp. 68° 75%

Transparency Conditions

[illegible]

Date Sun/Mon. July 25/26 '71 Observer Blu Julian Day _____

[illegible]

Dome Temp. 64° H=90%

Transparency Conditions Fair - Good (Very Hazy) 32

g Time ST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
31	01 36 W	-15 50	2	2.89	Am	12-12	Sp. Bin-Blu	40/18		FINE
4	01 54 W	+20 6	2	3.74	AOV	12-12	"	40/18		FINE
5	01 55 W	+12 54	2-3	6.80	AO	8-8	"	400/130	Placed at r.h. end of box <u>Overdevelop plate</u> Terminated by heavy fog Closed 22:00 Heavy fog	FINE NUM 50000 3474
	near 2	for 9.0 min @ 60°F								
	"	15	"					"		

137

Date Mon/Tues. July 26/27, 1971 Observer Hb

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34923	HD 170200	18 ^h 23 ^m .1	+6° 8'	G12	IIaO	13/.5	70°F	21 03	21 35	A
34924	HD 180553	19 11.9	+27 25'	"	"	"		21 41	22 23	B
34925	HD 193964	20 18.0	+61 56	"	"	"		22 32	22 52	C
34926	HD 169578	18 20.2	+5° 2'	"	"	"		23 01	00 05	A
34927	HD 186791	19 41.5	+10 22	"	"	"		00 18	00 23	C
34928	HD 219749	23 13.2	+44 57					00 34	01 18	C
34929	HD 170200	18 23.1	+6 8	"	"	"		01 24	01 55	A
34930	HD 180553	19 11.9	+27 25'					02 00	02 56	B
34931	HD 193964	20 18.0	+61 56	"	"	"		03 07	03 27	C
34931F	Focus Test			"	"		60°F			B
34931	calibration strip wedge for plates 34923-34931									

27 July 1971

Dome Temp.

Clock and nesting ~~done~~ ^{done} clean by 2230

138

[illegible]

Date Tues/Wed. July 27/28, 1971 Observer H6, Rd Julian Day 1971190.5

[illegible]

Dome Temp.

Transparency Conditions

Transparency Conditions *Fair but threatening at start - cloud in west and north*

[illegible]

* baked plate (July 27)

Date July 29-30/71 Thurs.^{Fri} Observer TG-JM Julian Day 174.5

[illegible]

Dome Temp.

Thick cloud by 2130

[illegible]

* baked July 21

Observer Dy-Tu

Julian Day

[illegible]

Dome Temp. 58°F H = 760

some cloud & haze

144

[illegible]

145

baked July 27

Date Sun/Mon Aug 1/2 '71 Observer B/n-Tn

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34953	HD130109	14 41.2	+ 2 19	G-12	IIa-Ob ⁺	13/5	70°F	20:37	20:49	A
34954	HD152614	16 49.3	+ 10 20	"	"	"	"	20:54	21:08	B
34955	HD141458	15 44.1	+ 13 01	"	"	"	"	21:12	22:08	C
34956	HD164577	17 56.7	+ 1 18	"	"	"	"	22:11	22:17	A
34957	HD187549	19 45.0	+ 33 22	"	"	"	"	22:34	23:08	B
34958	HD170073	18 22.5	+ 58 45	"	"	"	"	23:14	23:24	C
34959	HD189178	19 53.8	+ 40 06	"	"	"	67	23:26	23:40	A
34960	HD177178	18 58.5	+ 1 40	"	"	"	"	23:44	00:16	B
34961	HD195965	20 29.3	+ 47 53	"	"	"	"	00:19	00:57	C
34962	HD198183	20 43.5	+ 36 07	"	"	"	66°F	01:00	01:04	A
34963	HD199611	20 53.3	+ 30 21	"	"	"	"	01:09	01:31	B
34964	HD201433	21 04.4	+ 29 48	"	"	"	"	01:35	01:53	C
34965	TX Psc	22 41.3	+ 2 46	"	"	"	"	01:57	03:03	A
34966	HD230057	23 15.7	+ 60 36	"	"	"	"	03:10	03:48	B
34967	HD220368	23 34.8	+ 5 05	"	"	"	"	03:53	03:59	C
34968	HD210418	22 05.2	+ 5 42	"	"	"	63°	04:02	04:06	A

Dome Temp. 63°F H=71%

Transparency Conditions Fair-Poor (Cirrus Clouds) ¹⁴⁶

Focus

Dome Temp. 59°F H=88% Drizzly Dome

log Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
49	14	02 26W	+2 07	3	3.74	A0V	12-12	Sp. Bin-Blu	80/34	cloud	SL. WK
01	0	00 39W	+10 20	3	4.30	B0V	8-8-8	"	80/36		FINE
01	0	02 42W	+12 55	2	6.80	A0	8-8-8	"	400/180	Carried 21.25 - unclear 11.31	SL. WK
17	4	00 40W	+01 24	"	4.46	A1V	12-12	"	40/17		FINE
01	0	00 17E	+33 24	2-3'	6.66	B0V	8-8-8	"	400/180		FINE
24	0	01 22W	+38 51	2	4.93	A1V	12-12	"	40/16		FINE
49	0	00 07W	+40 21	1-2	5.35	B0V	8-8-8	"	200/90		FINE
16	0	01 37W	+1 52	2	5.68	A2	8-8-8	"	200/90		FINE
17	0	00 49W	+48 11	1-2"	5.22	B2	8-8-8	"	400/180	(GUIDING)	SL. WK
01	0	00 45W	+36 26	1-2	4.42	B5V	12-12	"	40/17	(GUIDING)	FINE
31	0	01 00W	+10 42	1-2	5.72	F0	8-8-8	"	200/105		FINE
01	0	01 07W	+30 09	2	5.6	A0	8-8-8	"	200/90		FINE
03	0	00 19E	+3 25	2-3	6.77	C6	8-8-8	T _g Search	400/450	[Focus etc]	WEAK
01	0	00 52W	+61 03	2	6.82	B5	8-8-8	Sp. Bin-Blu	400/180	34458F - 63°F	GOOD
59	0	00 43W	+5 32	1-2	4.44	F5V	8-8-8	RV Std.	40/45		FINE
01	0	02 19W	+6 10	2	5.21	A2V	12-12	Sp. Bin-Blu	40/16		FINE

Date Aug 2/3 '71 Observer Ht-Tn Julian Day 171

[illegible]

149

Date Aug. 9-5/71 Wed-Thurs Observer West-In Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34972	HD 187691	19 46.2	+10° 10'	G12	Ilford	13/5	67°F	20:44	21:00	A
34973	R Cr B	15 ^h 44.4	+28° 28'	"	" "	"		21:07 ₅₀	21:37	B
34974	ADS 14893	21 ^h 16.5	09° 55'	"	" "	"		21:50	22:40	C
34975	ADS 14893	21 ^h 16.5	09° 55'	"	" "	"	69°F	22:42	23:52	A
34976	HD 222368	23 34.9	+5 05	"	"	"		23:58	00:08	B
34977	ADS 14893	21 16.5	+09 55	"	"	"	63°F	00:13	01:13	C
34978	"	"	"	"	"	"		01:16	02:06	A
34979	"	"	"	"	"	"		02:10	03:04	B
34980	HD 222368	23 34.9	+5 05	"	"	"		03:07	03:13	C
34981	1667120014	05 ^h 58.4	+23° 16'	"	"	"		03:20	03:44	A
34982	" "	"	"	"	"	"		03:47	04:03	B
34982.1	Focus			"	"	13	60°F			E
34982.7	calibration step wedge for plate									

6 Aug 1971

151

Date Aug 5-6/71 Observer West-In Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
34983	R Cor Bor	15 44.9	+28°28'	G12	Il-a-o	13/5	70°F	20:25 ₂₂	20:47	A
34984	HD 187691	19 46.2	+10 10	"	"	"	69°F	20:52	21:10	B
34985	ADS 14893	21 16.5	+9 55	"	"	"		21 18	22:32	C
34986	" "	21 16.5	9°55'	"	"	"		22 34	23:30	A
34987	HD 222368	23 34.9	+5 05	"	"	"	67°F	23 34	23:44	B
34988	ADS 14893	21 16.5	+9 55	"	"	"		23 48	00 38	C
34989	"	"	"	"	"	"	65°F	00 39	01 25	A
34990	HD 222368	23 34.9	+5 05	"	"	"		01 28	01 36	B
34991	ADS 14893	21 16.5	+9 55	"	"	"		01 43	02 41	C
34992	"	"	"	"	"	"	64°F	02 42	03:22	A
34993	HD 222368	23 34.9	+5 05	"	"	"		03 20	03:32	B
34994	E (FT)	02 ^h 34.5	-12°18'	"	"	"		03 37	03:53	A
34995	1047	05 57	+23°16'	"	"	"		03 59	04 11	C
34995 F1	Focus			"	"	13	63°F			B
34995 T1	calibration strip wedge for plates 34983-34995								6 Aug/71	

* bated Aug 5/6

Date Aug 6-7 / 71 Fri-Sat Observer GN-Tn Julian Day 181

[illegible]

Dome Temp. 60°F H = 7070

Transparency Conditions

154
CLEAR / ^{VSKY} HAZY 11-12-22 154

Time ST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
07	A	1:14 E	+05° 19	2-3	7.15	F0Ib	3-3-3	GH Clusters	200/30		FINE
07	B	0:50 E	"	2"	"	"	3-3-3	"	200/40		FINE
08	C	0:27 E	+05 00	1-2"	6.55	L1	3-3-3	"	800/120		FINE
08	A	0:47 W	+05 19	"	9.43	(K)	3-3-3	"	800/120	hazy	SC WK
08	B	3:22 W	+05 22	2'	9.34	(L)	3-3-3	"	800/111	hazy	FINE
09	C	2:32 W	+10 27	2-3"	5.8	F8	3-3-3	std Vel	200/30		
09	A	3:15 E	+59 57	2"	8.2	G8	3-3-3	GH Cluster	200/120		SC WK
09	B	1:58 E	+59 53	"	7.8	(B)	3-3-3	"	800/120		FINE
09	C	1:33 E	+59 55	3-6	7.0	F5II	3-3-3	"	200/30		FINE
09	A	1:25 E	+56° 59	3-4	6.2	B1	3-3-3	std Vel	200/30		FINE
09	C	1:08 E	+23° 23	2-3	3.15	K2III	5-4	"	40/ 9		
							10/10				U.S.C. CENTRE TO VIOLET

* Baby Page 1

Date Aug 7-8/9 Sat-Sun Observer GH-Tn Julian Day 2444550.5

[illegible]

Dome Temp. 68°F H7370

Transparency Conditions

156

Focus

Dome Temp.

 68°F H=7370

Time T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
04	A	1:07 W	+36 58	1.3"	8.74	A0	3-3-3	GH checker	800/120		FINE
05	B	2:25 W	+36 48	2"	7.54	B5	3-3-3	"	800/120		FINE
06	C	2:14 W	+36 57	"	5.96	M42	3-3-3	"	200/30		SL. GR
07	A	2:43 W	"	"	"	"	3-3-3	"	200/60		FINE
08	B	2:51 W	+37 02	2-3	5.48	(B)	5-4	"	40/6		FINE
09	C	3:40 W	+36 49	1.2"	7.99	B9	3-3-3	"	800/120	600/120	FINE
10	A	2:58 W	+10 27	1-2	5.8	F8	3-3-3	std vel	200/30		
11	B	2:22 E	+59 07	"	8.8	6902	3-3-3	GH checker	500/120		WEAK
12	C	1:09 E	+58 40	"	8.9	(B)	3-3-3	"	800/90		WEAK
13	A	mm / sunset					10/10	of 14 in		Amos! we removed plate of the 14 but actually under you label then add 1 May we 07 → 15 T ₂	CENTRE TO VIOLET

157 p 41

* baked July 29/50

Date Sun - Mon Aug. 8-9, 1971 Observer Bln - Tn Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35016	HD124897	14 11.1	+19 42	G-12	IIa-06 [*]	13/5		20:12	20:13	A
35017	HD130109	14 41.2	+2 19	"	"	"		20:18	20:20	B
35018	HD141452	15 44.1	+13 01	"	"	"		20:25	21:03	C
35019	HD152614	16 49.3	+10 20	"	"	"		21:08	21:12	A
35020	HD164577	17 56.7	+1 18	"	"	"	79°F	21:16	21:20	B
35021	HD177178	18 58.5	+1 40	"	"	"		21:22	21:38	C
35022	HD187459	19 45.0	+33 11	"	"	"		21:42	22:02	A
35023	HD170073	18 22.5	+58 45	"	"	"		22:04	22:08	B
35024	HD189178	19 53.8	+40 06	"	"	"		22:12	22:18	C
35025	HD191610	20 05.7	+36 33	"	"	"	77°F	22:22	22:26	A
35026	HD192909	20 12.4	+47 24	"	"	"		22:32	22:38	B
35027	HD197965	20 29.3	+47 53	"	"	"		22:42	23:10	C
35028	HD199011	20 53.3	+50 21	"	"	"		23:12	23:30	A
35029	HD199123	20 43.5	+36 07	"	"	"		23:35	23:39	B
35030	HD201433	21 04.4	+29 48	"	"	"		23:42	23:54	C
35031	uu Pac	20 09.8	+8 16	"	"	"		00:21	00:53	B

Dome Temp. 71°F H=55%

Transparency Conditions Fair - Scattered Cirrus

158

Focus

Dome Temp.

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
13	A	02 48 W	+19 25	2"-3"	1.30	K2 III _p	12-12	RV Std.	70/26		(GUIDING) STRONG
20	B	02 26 W	+2 07	2"	3.74	A0 V	12-12	Sp. Bin. - Blu	40/18		FINE
13	C	02 05 W	+12 55	2	6.80	A0	8-8-8	"	400/200	1" broken off	FINE
2	A	01 09 W	+10 18	2	4.30	B8 V	12-12	"	40/18		FINE
20		00 09 W	+1 24	2-3	4.46	A1 V	12-12	"	40/18		FINE
38	C	00 34 E	+1 53	2	5.68	A2	8-8-8	"	200/90		(GUIDING) FINE
32	A	00 57 E	+33 27	"	6.66	B0.5 I	8-8-8	"	400/200		(GUIDING) FINE
29		00 35 W	+58 51	1	4.93	A1 V	12-12	"	40/19		FINE
1	C	00 49 E	+40 20	1	5.35	B3 I _p ?	8-8-8	"	200/90		FINE
26	A	00 52 E	+36 49	1	4.82	B3 I _c	12-12	"	40/18		(GUIDING) SL STR
38		00 46 E	+47 32	1	5.42	K0 + A3	12-12	Atm Ecl.	40/36		FINE
10		00 32 E	+48 12	1"-3"	6.82	B2	8-8-8	Sp. Bin. - Blu	400/200		(GUIDING) FINE
30	A	00 35 E	+50 42	2-3	5.72	F0	8-8-8	"	200/115		FINE
39	B	00 17 E	+36 26	2"	4.42	B1 I	8-8-8	"	40/18		FINE
2	C	00 22 E	+30 09	2	5.6	A0	8-8-8	"	200/100		FINE
3	A	02 30 E	+8 43	2"-3"	4.15	A9.5	8-8-8	"	400/200		FINE

pg #2

Observer... *Bla-Tn*

Julian Day

[illegible]

Dome Temp. 64°..... 70°

Transparency Conditions *very good*

160

[illegible]

161

* Bailed 9/10 Aug

Date Wed/Thurs Aug 11/12 1971 Observer B/n Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35040	HD 124897	14 11.1	+19 42	G-12	Ilva-06*	13/5	68°F	20:02	20:03	A
35041	HD 130109	14 41.2	+ 2 19	"	"	"		20:09	20:13	B
35042	HD 158704	17 25.6	-26 11	"	"	13/5	66°F	20:19	21:19	C
35043	HD 141458	15 44.1	+13 01	"	"	13/5		21:23	22:11	A
35044	HD 152614	16 49.3	+10 20	"	"	"	69°F	22:14	22:20	B
35045	HD 164577	17 56.7	+ 1 18	"	"	"		22:24	22:32	C
35046	HD 170073	18 22.5	+ 58 75	"	"	"		22:36	22:42	A
35047	HD 189178	19 53.8	+40 06	"	"	"		22:48	22:56	B
35048	HD 187459	19 45.0	+33 11	"	"	"	60°F	23:03	23:37	C
35049	UU Pce	00 09.8	+ 8 16	"	"	13/3		23:43	00:07	A
35050	HD 195965	20 29.3	+ 47 53	"	"	13/5	58°F	00:13	00:47	B
35051	UU Pce	00 09.8	+ 8 16	"	"	13/3		00:57	01:15	C
35052	HD 198183	20 43.5	+ 36 07	"	"	13/5		01:22	01:26	A
35053	HD 199611	20 53.3	+ 50 21	"	"	"	57°F	01:30	01:58	B
35054	UU Pce	00 09.8	+ 8 16	"	"	13/3		02:03	02:23	C
35055	HD 201433	21 04.4	+ 29 42	"	"	13/5	50°F	02:27	02:45	A

Dome Temp. 63° H=53%

Transparency Conditions Excellent

162

Focus

Dome Temp.

Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03	A	02 49W	+19 25	5	1.30	K2IIIp	12-12	RV S+d.	40/25		FINE
13	B	02 29W	+2 05	4	3.74	A0V	12-12	Sp. Bin-Blu	40/15		FINE
19	C	00 51W	-26 08	4-5	6.01	B9	8-8-8	GI Ap + m	200/110		FINE
11	A	03 25W	+12 50	3-4	6.80	A0	8-8-8	Sp. Bin-Blu	400/180		FINE
20	B	02 28W	+10 18	3-4	4.30	B8V	12-12	"	40/15		FINE
22	B	01 32W	+1 24	3-4	4.46	A1V	12-12	"	40/15		FINE
42	B	01 20W	+58 52	4	4.93	A1V	12-12	"	40/15		FINE
5/3	B	00 04W	+40 21	3-4	5.35	B5Vp	8-8-8	"	80/32		FINE
57	B	00 52W	+33 25	3-4	6.66	B0.5Ib	8-8-8	"	400/80		FINE
07	A	03 04E	+8 44	3-4	6.15	A9s	8-8-8	"	400/130		FINE
17	B	01 17W	+48 12	3	6.82	B2	8-8-8	"	400/180		SL. STR
18	B	01 57E	+8 45	3-4	6.15	A9s	8-8-8	"	400/130		FINE
26	B	01 41W	+36 29	3	4.42	B5V	12-12	"	40/15	PIATE IN P.H UPSIDE DOWN	FINE
43	B	02 05W	+50 42	2-3	5.72	F0	8-8-8	"	200/110	Dec. Clamp on fr. 12	FINE
53	C	00 48E	+8 44	3	6.15	A9s	8-8-8	"	400/180	Dec. clamp working	FINE
10	B	02 34W	+30 11	3-4	5.6	A0	8-8-8	"	200/15		FINE

..Julian Day

[illegible]

Focus

Transparency Conditions *Excellent*

Dome Temp. 50°F $H=75\%$

164

[illegible]

9 32 77

Date Thur/Fri Aug 12/13 1971 Observer McU Julian Day 2444110

[illegible]

Dome Temp.

Transparency Conditions *Cloud is not - seeing fairly good*
Scattered Cloud ~ 21"

[illegible]

167

* 13, 14, 15 Aug 12/13

Date Fri/Sat Aug 13/14, '71 Observer Bl. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35062	HD 124897	14 11.1	+19 42	G-12	Il-06*	13/5	75°F	20:03	—	A
35063	HD 141456	15 49.1	+12 01	"	"	"	70°F	21:32	22:52	E
35064	HD 152614	16 49.3	+10 20	"	"	"		22:56	23:04	C
35065	HD 164277	17 56.7	+1 17	"	"	"		23:07	23:17	A
35066	HD 170474	18 24.5	-2 03	"	"	"		23:20	00:14	B
35067	HD 170723	18 22.5	+55 45	"	"	"		00:20	00:36	C
35068	HD 187459	19 45.0	+33 11	"	"	"		00:42	01:16	A
35069	HD 199118	19 53.8	+40 06	"	"	"		01:20	01:32	B
35070	HD 195865	20 29.2	+47 53	"	"	"		01:34	02:38	C
35071	HD 201412	21 04.4	+29 47	"	"	"		02:42	03:04	A
35072	HD 198123	20 42.5	+36 07	"	"	"		03:08	03:14	B
35073	HD 201412	20 04.8	+8 16	"	"	13/3		03:18	03:28	C
35074	HD 200057	23 15.7	+60 36	"	"	13/5		03:42	04:12	A
35075	HD 200057	23 27.3	+60 23	"	"	9/7	69°F	04:17	04:23	B

Dome Temp. 68°F $H=71\%$

Focus

Dome Temp. 62°F $H=82\%$

Transparency Conditions Fair - very poor

Good after 8h

168

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02	57W + 19 25		1-2	1.30	K2III _p	12-12	RV Std.	40/25	Clouds coming	FINE
04	14W + 12 55		2-4	6.80	AD	8-8-8	Sp. Bi.-Bl.	400/180		WEAK
05	22W + 12 17		2	4.30	8IX	12-12	"	40/15		SC. WK
06	27W + 1 24		2	4.46	AIX	12-12	"	40/15		SC. WK
07	37W - 1 56		2-4	6.72	K0III	8-8-8	"	200/140		SC. WK
08	34W + 58 52		2-4	4.99	AIX	12-12	"	20/12		FINE
09	33W + 33 26		2	4.66	R25I _b	8-8-8	"	400/180		FINE
10	45W + 40 24		1	5.21	R25I _p	8-8-8	"	200/20		FINE
11	16W + 48 13		1-2	5.82	B2	8-8-8	"	400/120	Clouds coming in	FINE
12	06W + 30 10		1-2	5.0	AD	8-8-8	"	200/40		FINE
13	27W + 36 29		1-2	4.42	35V	12-12	"	40/15		FINE
14	34W + 8 44		1-2	4.15	AD	8-8-8	"	400/150		FINE
15	04W + 60 05		2	4.82	B5	8-8-8	"	400/180		FINE
16	01W + 6 45		1	4.70	AD	12-12	M. L. &	40/25		FINE

169

* baked Aug 12/13

** 6000 2nd St

Date Sun. Morn Aug 15/12. '71 Observer McCl Julian Day 171

[illegible]

Dome Temp. ... 33.75 = 41

Transparency Conditions excellent transparency
 this card from EE at 0020, changing by 0040

170

Time T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
17		02 03W	+28 19	3-4"	6.4	F8T2	8-8-8	RCR-B-JDF	400/235		
18		00 21W			3.93	K2E	12-12	SDV6L	40/32	130/1	
19		00 02W	+21 57	2"	7.4- 4.6	F2- K2	4-4-4 4-4-4	Dy	800/350	FOGGED	
20		01 15W	+28 19	"	8.26	OSIE	4-4-4 4-4-4	SSV	80/350		
21		01 52W	+25 53	"	8.14	K2E	4-4-4 4-4-4	"	800/350	field drawn	
22		01 36W	+27 52	1-2"	8.36	OSIE	4-4-4 4-4-4	"	800/350		
23		01 42W	+28 36	2-3"	7.7	K2E	4-4-4 4-4-4	"	800/350		FINE
24		01 20W		2"	4.30	B1I3	8-8-8	M. 11x	40/24	die clamp stuck in "on" position!	FINE
25		01 11W	+28 29	"	7.20	C9III	4-4-4 4-4-4	SSV	800/350	"	FINE
26		01 00W					3/3	no filter			BLANK

171

* Baked Aug 13/14

Date Mon/Tue 16/17 Aug '71 Observer Bln

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35085	HD124297	14 11.1	+ 19 42	G-12	II-a-05*	13/5	69°F	20:01	—	A
35086	HD189178	19 53.8	+ 40 06	"	"	"		20:09	20:29	B
35087	HD201433	21 04.4	+ 29 48	"	"	"		20:34	20:56	C
35088	HD164577	17 56.7	+ 1 18	"	"	"		21:01	21:29	A
35089	HD172474	19 24.5	- 2 03	"	"	"	67°F	21:14	22:00	B
35090	HD177178	18 58.5	+ 1 40	"	"	"		22:04	22:24	C
35091	HD170073	18 22.5	+ 58 45	"	"	"		22:40	22:46	A
35092	HD192429	19 45.0	+ 53 11	"	"	"		22:53	23:33	B
35093	HD191610	20 05.7	+ 36 33	"	"	"		23:37	23:43	C
35094	UU Psc	00 09.8	+ 8 16	"	"	13/3	66°F	23:50	00:06	A
35095	HD171765	20 29.3	+ 47 53	"	"	14/5		00:12	00:40	B
35096	UU Psc	00 09.8	+ 8 16	"	"	13/3		00:45	00:57	C
35097	HD200771	21 39.9	+ 29 20	"	"	13/5	65°F	01:02	01:38	A
35098	UU Psc	00 09.8	+ 8 16	"	"	13/3		01:42	02:00	B
35099	HD189178	19 53.8	+ 40 06	"	"	13/5		02:10	02:15	C
35100	HD204862	21 20.3	+ 11 42	"	"	13/3		02:18	02:40	A

Dome Temp. 62°F H=63%

Focus

Dome Temp.

Transparency Conditions *Very Good - some g.d. haze & cirrus low in north*

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A	23 09 W	+19 26	3	1.30	K2IIIp	12-12	RV Std	40/26		FINE
29 1 R		22 09 E	+40 22	1-2	5.35	BSIp?	7-8-8	Sp. Bin-Blu	200/85		FINE
		22 30 E	+30 09	1-2	5.6	A0	8-8-8	"	200/85		FINE
		20 29 W	+1 24	2	4.46	A1V	12-12	"	40/15		FINE
		00 53 W	-1 55	1-2	6.72	K0III	8-8-8	"	400/200		FINE
		00 59 W	+1 53	2	5.68	A2	8-8-8	"	200/80	Very low	FINE
		01 48 W	+58 51	1	4.95	A1V	12-12	"	40/15		FINE
		01 07 W	+33 25	1-2	6.66	B05Ib	8-9-6	"	400/50		SC. STR
		00 50 W	+36 52	1	7.82	B3Ic	12-12	"	40/16	Plunger is all the way out	STRONG
	A	03 01 E	+8 44	2	6.15	A9s	8-8-8	"	400/130		FINE
		01 30 W	+49 12	1	6.82	B0	8-8-8	"	400/180		FINE
		01 54 E	+8 44	1-2	6.15	A9s	8-8-8	"	400/130		FINE
		01 17 W	+28 39	1-2	6.30	A0-A9	8-8-8	"	400/180		
		00 52 E	+8 48	1-2	6.15	A9s	8-8-8	"	400/130		
		03 40 W	+40 24	1-2	5.35	BSIp?	8-8-8	"	200/80		
	A	02 32 W	+12 05	1-2	5.73	E7Z	8-8-8	"	200/85		FINE

Date Oct 1961

Observer.

Julian Day

[illegible]

Dome Temp. 59° H=74%

Excellent
Superb night

174

[illegible]

* Eaten Aug 17 8 hrs

Date _____

Observer..... 2002

Julian Day

[illegible]

Dome Temp. 66°F H=62%

Transparency Conditions

Focus

Dome Temp.

Time T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21		02 05N	128 28	3"	8.4	F12	8-3-3	JDF AC-3	200/140		FINE
22		02 16N	+21 56	1-2"	8.2	F4	4-4-4 4-4-4	Dy	300/350		FINE
22		02 54N	128 14	1"	8.1	F12	4-4-4 4-4-4	SSV	200/350	field down	SL. WK
23		03 49E	+25 53	1"	8.44	K2 III	4-4-4 4-4-4	"	300/350	extremely fast	SL. WK
24		00 12E	—	1"	8.14	K2 III	4-4-4 4-4-4	"	300/350	"	
25		00 20E	+25 53	1"-2"	8.05	K0 III	4-4-4 4-4-4	"	300/175	"	SL. WK
26		00 18E	+27 57	1-2"	8.36	G8 III	4-4-4 4-4-4	"	400/175	"	SL. WK
27		00 18E	+28 36	1"	7.9	K0 III	4-4-4 4-4-4	"	400/175	"	FINE
28		00 15W	+30 27	1"	8.02	G0 IV	8-8-8	"	400/175	"	FINE
29		00 13W	+28 20	1-2"	7.50	G9 IV	8-8-8	"	400/175	"	SL. WK
30		00 05W	—	—	4.30	B1 Ia	12-12	MCV	40/27		(SL. WK) STRONG
31		00 43W	+26 15	2"	8.16	K0 II	8-8-8	SSV	400/175		SL. WK
32		01 13N	+29 27	2"-3"	7.49	K0 III	8-8-8	"	400/175		FINE
33		01 13N	+29 27	2"-3"	7.49	K0 III	8-8-8	"	400/175		BLANK

* baked Aug 18 15 hrs

Observer

2007-10-10... Julia

Julian Day

[illegible]

Dome Temp. 61° $H=7290$

March 27th - 04

178

[illegible]

Date Thur/Fri 19/20 Aug Observer T-H-S Julian Day 192

[illegible]

Dome Temp.

 70°

$H = 697_2$

Transparency Conditions

Very hazy

80/

Focus

Dome Temp.

70

70.

g Time
S.T.

34

10

Date Fri-Sat Aug 20/21 / 71 Observer Ht-Jn Julian Day

[illegible]

Dome Temp.

Transparency Conditions *Very good*
scat cloud around 234

82

[illegible]

- 1st group

Date Sat-Sund Aug 21-22/71 Observer Julian Day

[illegible]

Dome Temp. 60°

Transparency Conditions

Photo. T.

184

[illegible]

Date Sat-Sun Aug 21-22/71 Observer LAKE, Tn, Km, SHR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35132	5d Cep	21 ^h 16 ^m 12 ^s	+62°10'	G12	11aD	13/5	70°	22:48	—	A
35133	η_1 Cep	20 ^h 43 ^m 15 ^s	+61°27'	G12	11aD	13/5	70	23:16	23:18	B
35134	5d Cep	21 ^h 16 ^m 2	+62°10'	"	"	"	70	23:32	—	C
35135	NGC 7027	21 ^h 04 ^m	+41°50'	G12	11aD	13/5	70	00:00	01:30	A
35136	X Cyg	20 ^h 39 ^m 5	+35°14'	G12	11aD	13/5	66	02:03	03:39	B
35137	S Cep	22 ^h 25 ^m 4	+57°54'	"	"	"	66	03:46	03:52	C
35138	S Cep	22 ^h 25 ^m 4	+57°54'	"	"	"	66	03:55	04:01	A
35139	HD 216538	22 ^h 48 ^m 6	+34°37'	"	"	"	66	04:15	04:35	B
39F	FOCUS TEST					13	66			B
35139 71	calibration strip under for plates				35130 - 35139				23 Aug, 71	

Dome Temp. 60 623

Transparency Conditions Excellent,
then some more

781

[illegible]

187

* baked Aug 20

Date Mon/Tue 23/24 Aug. '71 Observer Blu-Tu Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35140	HD 124897	14 11.1	+ 19 42	G-12	IIa-06*	13/5		19:52	—	A
35141	HD 164577	17 56.7	+ 1 18	"	"	"		19:57	20:03	B
35142	HD 170474	18 24.5	- 2 03	"	"	"		20:05	20:37	C
35143	HD 122128	18 58.5	+ 1 40	"	"	"		20:42	21:10	A
35144	HD 170073	18 22.5	+ 58 47	"	"	"		21:15	21:23	B
35145	HD 187459	19 45.0	+ 33 11	"	"	"	57°F	21:26	22:00	C
35146	HD 199178	19 53.8	+ 40 06	"	"	"		22:03	22:17	A
35147	HD 191610	20 08.3	+ 36 46	"	"	"		22:20	22:26	B
35148	HD 192909	20 12.4	+ 47 24	"	"	"		22:29	22:41	C
35149	UU Psc	00 09.8	+ 8 16	"	"	13/3	56°F	22:47	23:15	A
35150	HD 195465	20 29.3	+ 47 53	"	"	13/5		23:20	23:54	C
35151	UU Psc	00 09.8	+ 8 16	"	"	13/3		00:03	00:23	B
35152	HD 199611	20 52.3	+ 52 21	"	"	13/5		00:27	00:51	A
35153	HD 209819	22 01.0	- 14 21	"	"	"		00:57	01:03	B
35154	UU Psc	00 09.8	+ 8 16	"	"	13/3	53°F	01:06	01:22	C
35155	HD 206874	21 39.9	+ 22 20	"	"	13/5		01:26	02:08	A

Dome Temp. 55°F H=56%

Transparency Conditions Good - scattered stratus clouds

Focus

Dome Temp.

188

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A	03 27W	+19 26	4-5"	1.30	K2III _p	12-12	RV Std	40/27		FINE
03	B	00 10E	+1 24	3-4"	4.46	A4V	12-12	Sp. Bin-Blu	40/16		FINE
37	C	00 02E	-1 54	2-4	6.72	K0III	8-8-8	"	400/280		FINE
10	A	00 05E	+1 54	3-4	5.68	A2	8-8-8	"	200/90		FINE
23	B	00 47W	+58 50	"	4.93	A1V	8-16	"	40/16		FINE
50	C	00 01W	+33 26	"	6.66	B0SIL	8-8-8	"	400/190		FINE
7	A	00 09W	+40 21	"	5.35	B5Z _p	8-8-8	"	200/90		FINE
26	B	00 07W	+36 49	"	4.82	B3Z _p	12-12	"	40/16		SL-STR
41	C	00 15W	+47 42	3	5.72	K0+ A3	8-8-8	Atm. Ecl.	200/150		FINE
57	A	03 10E	+8 44	2-3'	6.15	A9s	8-8-8	Sp. Bin-Blu	200/65		FINE
56	C	01 13W	+48 13	3	6.82	B2	8-8-8	"	400/180		FINE
23	B	02 01E	+8 44	3-4	6.15	A9s	8-8-8	"	400/130		FINE
57	A	01 45W	+50 42	3-4	5.72	F0	8-8-8	"	200/113		FINE
13	B	00 46W	-13 54	3	4.18	B8V	12-12	"	40/16		
2	C	01 01E	+8 46	2	5.15	A9s	8-8-8	"	400/130		FINE
7	A	02 15W	+28 14	3-4	6.70	A ₁ +	8-8-8	"	400/180		FINE

189

Observer

Julian Day

[illegible]

Transparency Conditions

Excellent

190

Focus

Dome Temp. 44°F H=6520

[illegible]

191

Date Tues-Wed 24/25 / 71 Observer Tn. waterloo Julian Day _____[illegible]

Dome Temp. 57 F

Dome Temp.

Transparency Conditions *Cloudy-*

192

[illegible]

Date Wed-Thurs 25/26/71 Observer GI - TN Julian Day _____[illegible]

Dome Temp. ... 18°

Transparency Conditions

hazy scattered cloud

194

[illegible]

Many visitors

14

NB*

Date Sat-Sun 28-29 Observer SHR, Le Kr Julian Day _____

[illegible]

Dome Temp. 60 70

192

	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
S/A	H	00 ^L 37 ^m E+10°41' ^m		2-3	3.40 B8	8-8-8	G100/	200/93			FINE
B	R	06 ^m 45'W+58°21'		"	5.20 F-G2	8-8-8	" Km	200/120			FINE
				"	3.28 A3					CLOUDY	
										Much unexposed plates <u>fogged</u> due to film <u>too humid - got water</u> on mirror.	
										(*) ONE OF THE ABOVE OBSERVERS HASN'T BEEN INSTRUCTED TO PUT EXPOSED PLATES BACK IN THE BOX WITH EMULSION PRINTING LEFT (THE DIRECTION OF THE ARROW); THIS COULD RESULT IN SUCH PLATES NOT BEING PROPERLY FIXED).	

Date Aug 29/30 1971 Observer Gl-Tn Julian Day _____

[illegible]

Focus

Dome Temp. ... 60°F ...

Transparency Conditions

Transparency Conditions *Excellent the rest* 198

	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sr.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2	-	00 ^m 20 ^s W	+25° 53'	2"-3"	6.67	A0	8-8-8	B1 Apr m	450/250		FINE
4	B	00 ^m 55 ^s W	+16° 04'	2"	7.46	B9	8-8-8	"	400/250	New box; fl. compression ~10" above eq	SL.WK FINE
C		02 ^m 58 ^s W	+6° 17'	2"-3"	5.7	B8 II	8-8-8	B8-B'n	200/125		FINE
10 A		00 ^m 05 ^s E	+30° 03'	1'-2'	7.54	B8	8-8-8	G1 Apr m	450/250		(GUIDING) SL.WK
B		00 ^m 30 ^s E	61° 10'	2"	7.96	A0	8-8-8	"	400/250	M faint - some cloud	(GUIDING) SL.WK
20 C		01 03 E	44° 08'	2-3"	7.85	B9	8-8-8	"	400/250		WEAK
16 D		01 40 E	102° 23'	2-4"	6.11	B8	8-8-8	"	400/250	nub	SL.WK
E C		01 47 W	+8° 44'	2-3"	6.15	Ars	8-8-8	B/n-S/b n	400/160		SL.WK
H							5.5	not clear			GOOD
										Looked at Saturn	
23		MCCP-2 / 9.0 min @ G1-E / 2000 fG!									

* BAKED 16 HRS.

Date AUG 31 / SEPT 1 TUES/WED 1971 Observer GZ-Tn Julian Day

[illegible]

SOME HAZE & CLOUD

702

702

man, yet it is too

20

[illegible]

Date SEPT 1/2 WED/THUR 1971 Observer G2 - NANCY G3 Julian Day 1971088

[illegible]

Dome Temp. 58°F H=632

Transparency Conditions GOOD - SOME HAZE

Focus

Dome Temp. 55°F H=77%

Log Time S.T.	PA	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
49	A	02 35W	+36 50	1-2"	5.1	B7V	8-8-8	SPEC. BIN	200/140		S.C.S.T.R.
54	B	02 24W	+75 30	"	6.84	FO	8-8-8	"	400/250		FINE
34	C	00 15 W	+13 19	"	6.1	B8V	8-8-8	"	400/200		FINE
47	H	01 07 W	+15 32	"	6.56	M2V	8-8-8	"	400/320		U.S.C.W.K.
5	I	01 31 W	+47 45	"	6.6	B3V	8-8-8	"	400/200	HAZY	FINE
10	J	00 05 E	+44 56	"	7.12	A2	8-8-8	"	400/160	"	FINE
50	H	00 23 W	-11 39	"	5.9	B9V	8-8-8	"	400/200	"	FINE
36	G	00 45 W	+61 53	"	6.49	B8	8-8-8	"	400/200	CLOUDS	FINE
50	J	00 16 W	+61 13	"	5.9	B7V	8-8-8	"	400/200	"	FINE
7	F	00 11 W	+62 50	"	4.15	B1V	12-12	M4*	40/23	"	(GUIDING) FINE
52	J	00 21 E	+60 57	"	5.58	B7V	8-8-8	SPEC. BIN	400/200	"	SLOW - ECL. BIN? FINE
56	J	00 21 W	+47 20	"	7.14	B8	8-8-8	"	400/160	"	(GUIDING) U.S.C.W.K.
		00 45 W	+50 45	"	5.62	B9V	8-8-8	"	400/200	"	FINE

* baked 1/2

Date _____

Observer

Julian Day

[illegible]

Dome Temp.

204

Exp Meter drying
chem replaced.
Sept 8/71

*baked Sept 1/2

Date Thurs-Fri Sept 9/10/71 Observer Th-B/n Julian Day

[illegible]

Dome Temp. 68°F $H=76^{\circ}$

Transparency Conditions good but hazy

206

Focus
Dome Temp. 57°F $H=76^{\circ}$

Long Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
91	00 42 W	$+01^{\circ} 25'$	2-4	4.46	A1V	8-8-8	Sp. Bin-Elu	200/91	too long - also for 1st series	STRONG
23	01 53 W	$-01^{\circ} 54'$	"	6.72	K0 III	8-8-8	"	400/320		FINE
46	02 18 W	$+59^{\circ} 52'$	1-3	4.93	A1V	8-8-8	"	200/90		SL. STR
27	01 08 W	$+47^{\circ} 41'$	2	5.42	K0 + A3	9-9-9	Atm. Ec. I.	200/160		FINE
27	02 08 W	"	"	5.42	K0 + A3	9-9-9	"	200/350		SL. STR
7	01 50 W	$+30^{\circ} 10'$	"	5.16	A0	8-8-8	Sp. Bin-Elu	200/100		STRONG
27	01 24 W	$+29^{\circ} 28'$	"	6.24	A5	8-8-8	"	400/200		SL. STR
42	00 25 W	$+8^{\circ} 45'$	2-3	6.15	A7	8-8-8	"	400/140		SL. STR
4	00 44 W	$36^{\circ} 44'$	2	4.58	A2V	8-8-8	"	200/90		SL. STR
51	00 50 W	$+62^{\circ} 50'$	1-2	4.30	B1 Ia	8-9-9	McU *	200/110		STRONG
38	01 51 E	$+9^{\circ} 43'$	1-2	3.66	B7p	8-16	Sp. Bin-Elu	200/-	Exp. mtr. not working. Int. not discharging.	STRONG
17	01 12 E	$+16^{\circ} 14'$	2	7.12	F7	8-8-8	"	400/-	Working (cont. S)	
55	03 38 W	$+08^{\circ} 44'$	1-2	6.15	A9	8-16	"	400/120		SL. STR
4	00 55 W	$+49^{\circ} 10'$	2	2.27	F2 Ib	12-12	KV Std.	400/-		STRONG
									2 PROTES # 13	GOOD

207

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35214	HD 209813	22 01	+46°45'	G-43	Il a O	13/3		19:30	20:12	A
35215	HD 213389	22 25.9	+48°51'	G-43	Il a O	13/3	65°F	20:19	21:02	B
35216	HD 216489	22 48.2	+16 19	"	"	"		21:10	21:26	C
35217	HDE 226862	19 54.6	+34 56	"	"	13/3	62°F	21:32	00:00	A
35218	HD 222107	23 32.7	+45°55'	"	"	"		00:06	00:09	E
35219	HD 4502	00 42.0	+24°06'	"	"	"		00:15	00:21	C
35220	HD 1404	00 13.1	36 14	G12	"	13/5	60°F	01:08	01:16	A
35221	44 Per	00 09.8	+08 16	"	"	13/3		01:18	01:58	B
35222	HD 2905	00 22.3	+62 23	"	"	9/7		02:04	02:30	C
35223	HD 21364	02 26.8	+9 23	"	"	13/5		02:38	02:44	A
35223A	Focus			"	"	13	59°			B
3522311	calibration strip	wedge	for plates	35214	-	35223				

Replaced - 5800, 6C4, 2x 6AN8A // 807, 6SN7, 1XOC3/VR105
- INPUT CABLE - Changed Dryer - thr

Focus

Dome Temp.

Transparency Conditions *good but scattered cloud*

Dome Temp. 52 67

208

[illegible]

Salmon

Observer.

Th

SL-Ge

Julian Day

Dome Te
Focus ...
Dome Te

Hour Angle
End

[illegible]

Visitors ~150
GH, GJCh

* baked Sept 17

211

Date Sat-Sun Sept 8/9/21 Observer Blm-Tn Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35232	HDE 226862	19 54.6	+34 56	G12	Ilford*	20/3		21:19	22:29	A
35233	Strickland	24 12.5	+59 34	G43	"	13/3	58°F	01:06	01:30	B
35233 F1	Frazer			"	"	13	"			B
35234 F1	calibration strip analysis for			352	Ilford*	32-3				
T2	"	"	"	352	24-231	Ilford UNBAKED				

Dome Temp. ... 50 ... A = 75%

Intercepted Card

2/2

[illegible]

* baked Sept 12/71

[illegible]

2/4

Dome Temp. 50°F $H=75.70$

MCIP 2/9.0 min @ 68°F - 22 September 1971

* baked Sept. 7/8

Date Wed/Thurs 22/23 Sept '71 Observer B/n-Ri/Lekun Pi Julian Day

[illegible]

Dome Temp. 52° H 82%

Transparency Conditions *Very Good - light clouds* *2/10*
by 21:30 Heavier cloud at 23:00

[illegible]

817

* Baked plates Sept 7/8/71

Date THURS/FRI 23/24 Sept '71 Observer Dy - Ri - Sl / Bln - Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35246	R Sct	18 42.1	-05 48.8	G-12	Il - 3	13/3		19:38	20:09	A
35247	R CrB	15 44.4	+28 28	"	"	13/5		20:18	20:51	B
35248	AC Her	18 26.0	+21 47.9	"	"	13/3	60°F	21:00	23:25	C
35249	HD 192909	20 12.4	+47 24	"	"	9/5		23:34	23:56	A
35250	HD 201433	21 04.4	+29 48	"	"	13/5		00:01	00:21	B
35251	HD 213534	22 26.9	+29 02	"	"	13/5		00:24	01:18	C
35252	HD 220057	23 15.7	+60 36	"	"	13/5		01:22	02:17	A
35253	HD 2905	00 27.3	+62 23	"	"	9/7		02:20	02:28	B
35254	HD 21364	03 21.8	+09 23	"	"	13/5		02:33	02:37	C
35255	HD 22363	04 23.3	+15 57	"	"	11	52°F	02:40	03:58	A
35256	HD 37519	05 34.1	+31 18	"	"	"		04:01	04:25	B
35257	HD 35467	05 19.4	+2 16	"	"	"		04:28	05:06	C
35258	HD 28052	04 20.7	+15 23	"	"	"		05:08	05:16	A
35259	HD 29139	07 26.2	+16 18	"	"	"	50°F	05:18	05:19	B
35259	from test	out out/		"	"	13	50°F			B

Dome Temp. 52°F 456%

Focus

Dome Temp. +30 H = 7470

Transparency Conditions good light wind + bad seeing

wind died down after midnight
Scattered clouds at 02:00

Scattered clouds at 02:00

2/8

[illegible]

* BAKED SEPT. 23/24

219

Julian Day

[illegible]

64%

24

[illegible]

* baked Sept 22/83
** baked Sept 7/8

baked sept 7/8

[illegible]

Dome Temp. 50° H: 84%

Transparency Conditions Fair-weathering

Excellent for 2nd half

222

[illegible]

223

+ dated Sept 29/30

Sept 30/Oct 1/71

Date 20/21 Sept 71 T. Hale - Fri Observer G.H. JD / R.H. Th Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35282	IC 4756-1	18 34.6	+5 22	643	II 60*	13/3	63°F	19:00	19:19	A
35283	IC 4756-7	"	"	"	"	"	62°	19:29	20:59	B
35284	IC 4756-6	"	"	"	"	"	"	21:07	21:51	C
35285	HD 127691	19 46.2	+10 10	"	"	"	61°	21:59	22:03	A
35286	NGC 2363 68	19 49.6	+14 36	6-12	"	20/3		22:20	01:00	C
	35286 B			6-12			61°F			B
35287	UW 12c	00 09.2	+9 16	6-12	IIa-0	12/3		01:05	01:29	A
35288	HD 220057	00 15.7	+60 36	"	"	12/5		01:44	02:36	B
35289	HD 2905	00 27.2	+52 21	"	IIa-0	9/7		02:40	02:50	C
35290	HD 4351	02 19.3	+10 09	"	"	12/5		02:56	03:18	A
35291	HD 21364	03 01.2	+9 23	"	"	"	59°	03:22	03:27	B
35292	HD 29362	04 23.3	+15 57	"	IIa-0b	13/5		03:30	04:28	C
35293	HD 35107	05 11.1	+2 16	"	"	"		04:31	04:59	A
35294	HD 37519	05 34.1	+21 12	"	"	"	58°	05:01	05:23	B
35294f	Focus			"	IIa0	13	"			B

Dome Temp. 55°F H: 75%Transparency Conditions Good - S1 haze

Focus

Dome Temp. 53°F H: 93%B. Clouds at end

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1	A	11:50 W	+5° 20'	2"	7.15	FO16	3-3-3	GM Cluster	800/120		SL. CLK FINE -
1	B	21:43 W	+5° 19'	1	9.43	~~FO~~ ?	3-3-3	"	800/120		WEAK
1	C	31:36 W	+10 22'	2"	7.16	A1	3-3-3	"	800/120		(BUILDING) SL. CLK
2	A	21:34 W	+10 27	"	5.8	F8	3-3-3	SWV-E	200/32		FINE
00	C	5:23 W	+35 12	2-3	8.74	FO16	8-8-8	Sp. Bin-Bin	700/250	Anson i Over exposure slightly. Plate at end of box (div 12 m) 1	SL. CLK W.D. ET FINE TO
1	A	21:36 W	+5 46	2	6.15	A9s	8-8-8	Sp. Bin-Bin	400/130		FINE
26	B	03:38 W	+61 06	1-2	6.82	HT	9-8-8	"	100/190		SL. STR
50	C	02:39 W	+62 51	"	4.3	F55	12-12	Mell X	40/26		STRONG
1	A	01:16 W	+10 34	"	5.22	B6	9-8-8	Sp. Bin-Bin	400/90	Cloud	FINE
1	B	00:52 W	+9 44	"	6.63	HT	12-12	"	40/17		(BUILDING) FINE
28	C	00:22 W	+16 14	1-3	3.12	F8	8-8-8	"	400/230		FINE
1	A	00:04 E	+02 24	1-2	6.52	G.16	9-8-8	"	400/100		FINE
3	A	00:04 W	+31 27	1	10.72	1203	8-8-8	"	400/110		FINE
1	B						3/3	not clear			W.D. ET SL. CLK

225

* baked Sept 29/30

** baked Sept 30/Oct 1

Date FRI OCT 1/3 1971Observer Gr-TuJulian Day 197

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35295	HD 214946	23 36.7	+44 29	G12	Ilao*	13/0.5	58°F	18 52	20 16	A
35296	HD 219624	23 12.2	+61 35	"	Ilao**	13/0.5	"	20 22	21 18	B
35297	HD 225093	23 57.3	+72 36	"	"	13/0.3	65°F	21 25	22 41	C
35298	HD 225289	23 57.9	+60 45	"	"	13/0.5	"	22 46	23 06	A
35299	HD 3881	00 36.3	+59 23	"	"	13/0.3	65°F	23 10	23 50	E
35300	HD 10260	01 35.3	+60 32	"	"	9/0.5	"	23 58	00 42	C
35301	HD 11188	01 44.9	+46 58	"	"	13/0.5	64°F	00 47	01 27	A
35302	HD 11291	01 45.8	+50 18	"	"	13/0.5	"	01 30	01 46	B
35303	HD 18473N	02 53.1	+59 17	"	"	13/0.5	"	01 52	02 30	C
35304	HD 23324	03 39.2	+24 32	"	"	13/0.5	"	02 36	02 54	A
35305	HD 23373	03 39.7	+55 37	"	"	13/0.5	63°F	02 59	03 13	B
35306	HD 23837	03 43.1	+44 40	"	"	13/0.5	"	03 18	03 45	C
35307	HD 21742	04 17.7	+20 45	"	"	13/0.5	"	03 53	04 14	A
35308	HD 38475	04 24.2	+10 18	"	"	13/0.5	"	04 21	05 07	B
35309	HD 24365	04 22.4	+20 29	"	"	13/0.5	"	05 13	05 39	C

Dome Temp. 60°F H: 82%

Transparency Conditions SOME HAZE

Focus

Dome Temp. 58°F H: 99% — but we were careful

Excellent seeing

92%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 01E	+44 55	1-3"	7.12	A2	8-8-8	SPEC. B.H.	400/200	~ 1/2" miss mark	(GUIDING) U.S.C.W.K.
01 33E	+61 52	1-2"	6.49	B8	8-8-8	"	400/200		(GUIDING) FINE
00 57E	+73 05	"	7.52	A3	8-8-8	"	300/275		FINE
00 35E	+61 13	"	5.9	B7E	8-8-8	"	400/200		FINE
00 25E	+59 49	"	7.25	A6	8-8-8	"	400/120		FINE
00 34E	+60 56	~1"	5.58	B7E	8-8-8	"	400/200		FINE
00 02W	+47 20	"	7.14	B8	8-8-8	"	400/200		FINE
00 20W	+50 44	<1"	5.63	B7E	8-8-8	"	200/100		FINE
00 05E	+59 38	"	7.35	A0	8-8-8	"	400/200		FINE
00 25E	+24 50	"	5.64	B7E	8-8-8	"	200/100	PLEASE CHECK THE	FINE
00 06E	+55 56	1"	6.00	B9	8-8-8	"	400/200	CLOCKS IN THE	FINE
00 25W	+44 55	1-2"	5.79	A5	8-8-8	"	400/250	DONE	FINE
00 18W	+21 03	"	5.9	B7E	8-8-8	"	400/200		FINE
01 03W	+10 33	"	6.55	B9	8-8-8	"	400/250		FINE
01 27W	+20 43	"	5.70	B7E	8-8-8	"	200/100		

In Sengul, Ralph Chen,
Ted Clifford

* baked Sept 30 / Oct 1

Date Mon Tues Oct 4-5/71Observer *Hd. In.*

0.

Julian Day

[illegible]

229

* Baked Sept 30 / 1971

Date Wed. Thurs Oct 6-7 / 71

Observer

Sanyal + J. Thomson

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35315	λ Psc	23 ^h 30.9 ^m	1° 14'	G12	Ilao B*	18/0.3		20 ^L 49 ^m	21 01	A
35316	N2e 1967	^{21 19 50} 20 ^L 40.1 ^m	^{6 19 50} +18° 59'	"	"	"	52°	21 11	00:01	C
35317	Stock 2-7	2 ^L 3.5	+59° 33.4	G43	Ilao	13/.3	51°	00:25	00:45	B
35318	Stock 2-43	2 ^L 6.6	+59° 46.4	"	Halc B*	"	49°	00:52	01:57	H
35319	Stock 2-11a	2 ^L 4.5	+59° 33	"	Halc B*	"	46°	02:03	03:54	B
	~~HD 13757~~	~~2^L 4.5~~	~~+59° 33~~					~~03:53~~		~~C~~
35319F							46°			
35319 T1	calibration				Ilao	UNBAKED				
T2					Ilao	BAKED OCT 6/7				

Dome Temp. 48°F H: 703Focus 20 R

Dome Temp.

Transparency Conditions very cloudy (windy) 230

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01	01 57E	+19° 40'	5"	4.5	A5	8/8/8	N Del (std)	200/60		FINE
01	04:00W	+19° 08'	5-10"	~10	—	8-8-8	N Del / 67	4000/240	cloud 21:30, ^{partly} clear at 22:30	
01	03 41E	+59° 55'	4.6"	7.0	F5II	3-3-3	GH Cluster	400/70		SL UK
01	04 27W	+59° 06'	3-4"	8.82	G5II	3-3-3	"	800/119		(SL) WEAK
01	02 14W	59° 56'	"	9.5	GK2	3-3-3	"	800/119		WEAK
				8.9	(H)	5			clouds	
		min/out out			field in			10/10		CENTRE TO JIGLE
FOCUS (20 to 50) CHANGE								Answer, Please get a calibration plate with plate #s 35315 & 35316 A. Samy d - PLATES SAVED SEPT 30/OCT WERE ALL USED UP.		

231

* baked out 6/7

Date Thurs. → Fri. 7-8 Oct 1971 Observer Ch. Chubb, Tm. J. Bly-Tu Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35320	BS 8775	22 58.9	+27 32 +24 32	G12	JN(sons)	13/5	49°F	22:49	—	A
35321	"	"	"	"	"	"	"	23:00	23:02	B
35322	"	"	"	"	"	"	"	23:32	—	C
35323	BS 168	00 34.8	55 59	"	"	"	"	23:48	23:53	A
35324	UU Pec	00 09.8	+8 16	"	Pa'06*	14/5		00:14	00:32	B
35325	HD 212514	22 26.9	+39 02	"	"	13/5		00:35	01:25	C
35326	UU Mc	00 09.8	+8 16	"	"	14/5		01:10	01:30	A
35327	HD 219121	22 00.9	+24 07	"	"	13/5	45°F	01:34	02:20	C
35328	UU Mc	00 09.8	+8 16	"	"	14/5		02:22	02:40	B
35329	HD 14951	02 19.3	+10 09	"	"	13/5		02:44	02:58	A
35330	2 Tau	03 21.8	+9 23	"	"	"		03:02	03:09	B
35331	HD 28363	34 25.3	+10 57	"	"	"	43°F	03:08	04:00	C
35332	CO A	02 32.8	+55 17	"	"	12/5		04:05	05:13	B
35333	HD 27218	05 37.1	+31 18	"	"	13/5	42°F	05:14	05:20	A
35334	Tau			"	"	13	"			B

Dome Temp. 59.....

232

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
—	00 34W	28° 03'	2-3"	2.42 <i>J=0.41</i>	H20-19	90-180	A410	40/6	40 10 } <u>Developed</u>	To weak
02	00 47W	"	"	"	"	270	"	40/12		weak
—	01 18W	"	"	"	"	270	"	40/4	40 30 } (Anson - Left)	VERY WEAK
53	00 00	+56 29	"	<i>J=0.89</i>	K02-19	90-180	"	40/80	5min } in freezer	Fine
32	01 06 W	+22 45	3	4.15	A75	8-8-8	Sp. Bln-Bln	400/125	@ GOR	FINE
	02 22W	+29 30	2-3	6.35	A75	8-8-8	"	400/110		FINE
30	02 04W	+9 47	2-3	4.15	A75	8-8-8	"	400/125		FINE
20	04 03W	+24 37	2-3	3.01	A75	8-8-8	"	400/120		FINE
	03 14W	+8 45	2-4	4.15	A75	8-8-8	"	400/125		FINE
58	01 24W	+10 36	2-3	2.25	B6	8-8-8	"	200/90		SL. STR.
	00 25W	+9 43	"	3.66	B8P	12-12	"	40/12		SL. STR.
	00 21W	+10 11	3-4"	7.12	F8	8-8-8	"	400/232		FINE
13	00 02W	+35 24	3	8.5	F8	8-8-8	AVT. 10	100/300		FINE
	00 28W	+31 24	"	6.03	R7V	8-8-8	"	400/120		V.SL STR.
										VERY SLIGHT CENTRE TO VIOLET

* baked Oct 6/7

Date Sun-Mon Oct 10-11 / 71

Observer

ver $A_1 \text{ Samyol} + \text{Trn/Gl-Trn}$

Julian Day

[illegible]

Dome Temp. 48°F H = 7470

Focus 10 R

Dome Temp. 43°F $H=8270$

Transparency Conditions Clear by 20:30

Cloud by 21st

234

log Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01:42	02 00 E	+1 40	1"-2"	4.5	A5	3/6	Nova Del std	200/60	(SC)	STRONG FINE -
01	01 41 E	"	"	"	"	6-6	"	200/60		STRONG
01:15	00 19 W	+60 39	3"-4"	2.65	B0	12-12	Be - 31	40/16		SL. STR
01:25	00 16 E	+50 36	2"-3"	4.03	B1	12-12	"	40/19		FINE
01:42	01 36 E	65 36	"	4.78	B2	8-8-8	"	40/19		FINE
01:42	01 12 E	22 25	"	6.11	B8	8-8-8	G/Aptm	400/173	Cloud again	(ENDING) FINE
		sun on foot pad				3/3	no filter			GOOD
									got drips on mirror?	
									everything seemed dry though?	

* Labeled 2-15/7

Date *Mar/time* *OCT 11/12 1971* Observer *Dy-Tu-Hd* Julian Day

[illegible]

Dome Temp. 39°F H=852

Transparency Conditions Very good - some cloud 234

[illegible]

237

[illegible]

Dome Temp. 40° H=73%

238

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		02:45W	35° 14'	1-2"	9.74	B0 Ib	8-16	SPRA-B/n	800f 3	cloud 20:30 Overdevelop Maximum useful time	WEAK
MWP-2 <u>1/15 min</u> @ 65°F 13008/71											

* baked Oct. 6/7/71

Date Thurs. Eve. Oct. 14/1967 Observer Sho-Si Julian Day 174.5

[illegible]

Dome Temp. ... 50°F ...

$$H = 94\%$$

Transparency Conditions

Fair

240

Focus

Dome Temp.

ing Time C.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
5:03	18W	-05° 39'	4-5"	6.3 8.6	60- 40	8-8	Dy	400/40,	closed → star low humidity high	VERY WEAK
closed up due to high humidity.										
5:06	—	+14° 04'	3	8.13	60	8-8-8	5X	500/63	no trail on paper	VERY WEAK
5:08	—					3-3	no filter.			GOOD
dec 9 = min @ 68°F in m.c.p. 2 - 15 Oct 1971										

* * baked Oct 13

Julian Day

[illegible]

Dome Temp. 53°F H=94%

Transparency Conditions

circus & haze

Focus

SECOND HALF - HEAVY HAZE & INTERMITTENT CIRCUS. VERY

Dome Temp. 50°F H=94%

242

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03 ^h 10 ^m W	+38° 50'	3-4	I = 0.07	AD	4.5 min	A 410	20/60	Counter # not sign.	
57E	+38 00	"	I = 0.41	M2	4.5 min	"	40/32		
1 ⁿ 24W	-05° 32'	2-3	I = 1.83	G01b	4.5 min	"	40/138	taken for 25 min	
2 ⁿ 25W	+45° 55'	"	I = 1.59	K51b	2/2/25	"	40/90	for 20 min	
0 ⁿ 05E	59 05	"	I = 1.76	F2IV	2/4	"	40/120		
0 ⁿ 37E	35 31	"	I = 1.76	M0III	1/3	"	20/50		0.50. WK
01 38W	42 25	"	7.49	K0III	3-8-	SSV	800/350	Chopped at 00 18 - cloud Unchopped at 00 24	SLICK
01 ⁿ 57W	+62° 52'	"	4.3	B1Ia	11-12	M01*	40/124		SL STR
02 33W	427 11	2-3	8.07	K0III	4-4-4 4-4-4	SSV	500/200	LEFT DARK SLIDE IN / WEAK	
03 ⁿ 22W	427 55	"	7.6	S=I	4-4-4 4-4-4	"	510/252	341 VRI FOR - CIRCUS	SLICK
					3/3	no filter.		CIRCUS	BLANK

* baked Oct. 13/71

Date Sat-Sun Oct. 16/17/71 Observer B/N 51 Julian Day.

[illegible]

Dome Temp.

Transparency Conditions: Mod. d. l. 4/2013, Art. 1, c. 1, lett. a)

244

[illegible]

245

* baked Oct. 13/71

Date Mon-Tue Oct. 12/19/71 Observer H.D.-S. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35360	RScl.	18 ^h 42.08	-05° 48'	G-12	11a-06	13/.5		18 14	19 14	A
35361	~~HD 2233~~	~~23 49.0~~	~~+16 46~~	"	"	13/.3		19 26		B
35361	HD 187691	19 46.2	+10 10	G-12	200B	13/.3		20 00	20:31	C
35362	HD 4350	0 42.4	+25 44	"	"	"	56°F	20 40	21:55	A
35363	HD 8747	1 21.2	+26 43	"	"	"	54°F	22 06	23 08	B
35364	HD 10638	1 58.7	+25 27	"	"	"		23 14	00:37	C
35365	HD 214923	22 37.5	+27 42	"	"	9/.5		00:42	00:56	A
35366	HD 215396	22 02.4	+58 53	"	"	"		01:02	01:12	B
35367	(UU) Psc	00 09.50	+08 16	"	"	13/.3		01:19	01:40	C
35368	HD 138511	02 ^h 09.9	+56° 35'	"	"	13/.5	53°F	01:50	02:28	A
35369	HD 24398	03 ^h 47.9	+31 35	"	"	9/.5		02:32	02:35	B
35370	HD 14951	02 ^h 19.3	+10° 09'	"	"	13/.5		02:41	02:57	C
35371	2 Tau	03 ^h 21.45	+09 23	"	"	"		03:00	03:03	A
35372	HD 21363	04 23.3	+15 57	"	"	"		03:04	03:13	B
35373	CO Aic	05 53.5	35° 19'	"	"	13/.3	52°F	04:18	05:30	C
35374	HD 21322	05 31.1	-1° 16'	"	"	9/.5		05:32	05:36	A

Dome Temp. 51°F H= 90%

Transparency Conditions

Hazy w/ light fog

346

Focus

Dome Temp.

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
14 W 1 ^h 37	-05° 37'	2-3	6.8-8.0	Go-Ko	8-8-8	Dy. v. bl.	800/400	Small dark spot	WEAK
2 ^h 12	+10 28	2	5.5	F8	8-8-8	Std Val	200/75	Double star with long tail See drawing field	FINE
E 1 ^h 21	+26 14	"	8.16	KO III	8-8-8	SSV (II)	800/300		
E 0 ^h 41	+29° 12	2	8.07	KO III	8-8-8	SSV (II)	800/300	7.1 sec. exposure	SC. WK
00 07 W	+25 50	"	8.26	G-8E	8-8-8	SSV (II)	800/200	Field checks.	SC. WK
03 46 W	+40° 08	2-3	5.15	4.7 III	9-9-9	Sp. Std.	20/36		SC. STR
03 31 W	+59° 21	"	4.99	8.0 III	9-9-9	"	80/36		SC. STR
07 51 W	+07° 45	"	6.15	A95	8-8-8	Sp. Run-Bk	400/130		FINE
01 44 W	+57° 00	1-2	6.77	Bl. Iab	8-8-8	Sp. Std	400/200		SC. STR
00 14 W	+31 50	"	2.96	Bl. Iab	12-12	"	40/20		VERY STRONG
02 03 W	+0° 33	2	5.88	B6	8-8-8	Sp. Run-Bk	20/34		U.S.C. STR
01 08 W	+09 44	"	3.66	B8p	8-8-8	"	40/16		U.S.C. STR
01 12 W	+11° 10	2-3	7.12	F7	8-8-8	"	400/270	(GARDING) FINE	
01 02 W	+25 25	"	7.2	F5	8-8-8	Rv. Tau-Dy	100/300		FINE
01 32 W	-01° 10	"	1.57	BO Ia	12-12	Sp. Std.	20/8	(GARDING) SC. STR	

247

Date.

Observer

Julian Day

[illegible]

Transparency Conditions

248

Dome Temp.

[illegible]

249 watercolor night
*baked Oct. 19/71

*baked Oct. 1967

/ Astronomy 100 (Fernie)

Date Tue/Wed Oct 19/20/71 Observer ^{Hw} BK-S1/-S1 Julian Day

[illegible]

Focus
Dome Temp. 46°F H 89%

Transparency Conditions Excellent

250

[illegible]

35-7" C

baker Oct 12/8 21

$$2 + \cos 2\alpha = 2\cos^2 \alpha = 2 \quad | \quad |$$

Julian Day

[illegible]

Date Wed/Thurs Oct 27/28 '71 Observer Bl-Tu/Ka-Tu Julian Day _____[illegible]

Dome Temp. 52° H = 950 6-27

Transparency Conditions *Very good*

Focus

Focus
Dome Temp. 52° N=95% was not but not now.

* Uncertain

efog 254

[illegible]

255

↓ Seminal Oct. 27/71
 ** baked

(A100 Extension)
 7120 →

Date Thurs = Fri Oct 28/71 Observer ^{CF, CU} TS, SI / SI, TN - Cb Julian Day 71

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35404	BS 7622	20 38	44° 55'	G-12	1-N*	13/.5	64	18:14	18:20	A
35405	BS 7622	22 34.2	38 32	"	"	"	"	18:26	19:18	B
35406	BS 8430	22 02.3	24 57	"	"	"	"	20:16	20:40	C
35407	BS 7731	22 59.8	14 40	"	"	"	"	20:54	21:22	B
35408	BS 0039	00 08.1	14 38	"	"	"	"	21:31	22:15	A
35409	BS 219	00 43.1	57 17	"	"	"	"	22 26	22:58	C
35410	BS 403	01 19.3	+59 43	"	"	"	"	23 06	23:30	A
35411	BS 921	02 58.8	38 27	"	"	"	"	23 43	23 46	B
35412	HD 6675	01 02.1	+69 10	"	Ilco*	13/.3	"	00:08	00:52	A
35413	2 Tau	03 21.8	+9 23	"	"	13/.5	"	01:03	01:09	B
35414	28363	04 23.3	+15 57	"	"	9/.3	56°F	01:21	02:45	C
35415	CO A65	05 53.8	+35 19	"	"	13/.3	"	02:50	05:06	B
35416	HD 28446	04 24.1	+53 42	"	"	13/.5	"	05:18	05:42	C
35417	B Gem	07 39.2	+28 16	"	"	"	"	05:45	05:47	A
17 F/ Focus Test				"	Ilco	13	54			B

Dome Temp. 52°F H=76%

Focus

Dome Temp. 47°F H=84%

* Transparency Conditions Excellent.

25

Anson - plates 35412-517 are on right side of unexp baked plate box.

Time G.T.	P.H.	Hour Angle End	Declination	Seeing	Per Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS (V-1)	Quality
20		00 ^h 15E	45° 17	2	1.03 I	A2Ia	1.5/3.0 ^{min}	A 410Y	20/60	6 min +.22	Good
18		01 10E	38° 59	"	5.17 I	09I	1.5/1.5	"	200/874	52 min exposure -.29	+
		00 42W	25° 18	"	3.12 I	F5I	1.5/1.5	"	40/109	20 min exp +.54	WEAK
2		00 28W	15° 10	"	2.42 I	B9I	1.5/1.5	"	40/391	25 min exp -.001	SL. WK
5		00 12W	15° 08	"	3.12 I	E2III	1.5/1.5	"	40/680	45 min -.31	(GRINDING) SL. WK
58		00 19W	57 45	"	2.57 I	G0I	15/15/15	"	40/270	30 min +0.26	FINE
30		00 16W	60 10	"	2.45 I	A1I	15/15/15	"	40/470	22 min +0.24	FINE
6		01 05E	32 46	"	0.00 I	MV Ia	2/2	"	40/10	2 min +3.39	SL. WK
52		01 54W	69 34	"	7.95 I	B0III	8-8-8	S. Std.	800/280	120 sec of 1/2 X 1/2	SL. STR
19		00 07E	—	"	3.66 I	Bp	8-8-8	spec. B/n	40/19	"	STRONG
50		00 28W	+16 11	"	7.12 I	F8	8-8-8	"	800/350		FINE
86		01 18W	135 26	2-3	7.896 I	F5	8-8-8	AVI Tan	800/300	faint	FINE
42		03 22W	+53° 57	"	5.22 I	B0III	8-8-8	S. P. 21	200/100	visual binary?? (S.E. 1/2)	STRONG
47		00 13W	+29° 10	"	2.15 I	B0III	V2-12	std vel	40/28		STRONG
							3/3	std vel			GOOD

* baked 5/21/22

Date Fri/Sat Oct 2/3 1991 Observer Elv. J. S. V. McU Julian Day

[illegible]

Focus

Dome Temp. 47° H = 87%

Transparency Conditions Scattered Clouds - Fair - Good

258

[illegible]

* baked Oct. 27/91

Date Sept 30/2021 Observer Dy-12-2/6 Julian Day[illegible]

Dome Temp. 43°F H=207,

Transparency Conditions Good - Something wrong
Gibbs Moon

260

[illegible]

Dome Temp. 10°F 4.786

Very wet in dome at dusk

Arson - Explodes during last night fire

262

[illegible]

263

Date Nov 1/2 / 21 Mon. Tars Observer H. T. S. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35448	HD 206778	21 39.3	+9 25	612	2006*	13/5	50°F	17:58	18 00	A
35449	12 Lac	22 37.0	+ 39 43	"	"	13/5	"	18:08	18:16	B
35450	"	"	"	"	"	"	"	18:18	18:26	C
35451	"	"	"	"	~~Ilco~~ ~~Ilco~~	"	"	18 29	18 35	A
35452	"	"	"	"	~~Ilco~~	"	"	18:37	18:43	B
35453	"	"	"	"	~~Ilco~~	"	"	18 45	18 50	C
35454	"	"	"	"	"	"	"	18 53	19:01 1/2	A
35455	"	"	"	"	"	"	"	19 04	19 10 1/2	B
35456	"	"	"	"	"	"	"	19 18	19 21	C
35457	"	"	"	"	"	"	"	19 23 1/2	19 32	A
35458	"	"	"	"	"	"	"	19 33	19 42	B
35459	"	"	"	"	"	"	"	19 43	19 57	C
35460	"	"	"	"	"	"	"	19 59	20 17	B
35461	"	"	"	"	"	"	"	20 18	20 28	C
35462	"	"	"	"	"	"	"	20 29	20:40	B

Dome Temp. 43°F H=68%

Transparency Conditions cloudy

264

Focus

Dome Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01	17 E	+9 50	2"	398	K210	12-12	CU Vel	40/29	thin cloud	
02	00 E	+40 10	"	5.1	B211	8-8-8	HD *	200/90	" " "	
03	50 E	"	"	"	"	8-8-8	"	200/70	now clear	
04	40 E	"	1-2"	"	"	8-8-8	"	200/70	clouds	SC STR
05	30 E	"	"	"	"	8-8-8	"	200/70		SC STR
06	25 E	"	"	"	"	8-8-8	"	200/70		SC STR
07	14 E	"	2"	"	"	8-8-8	"	200/70		SC STR
08	00 E	"	"	"	"	8-8-8	"	200/70		SC STR
09	55 E	"	"	"	"	8-8-8	"	200/70	plate wedged in box 1/2" below	SC STR
10	44 E	"	"	"	"	8-8-8	"	200/70	"	SC STR
11	34 E	"	"	"	"	8-8-8	"	200/70	clearing	SC STR
12	00 17 E	"	"	"	"	8-8-8	"	200/70	clearer than	SC STR
13	00 01 W	"	"	"	"	8-8-8	"	200/70	1/2 time at 200/11 clouds	SC STR
14	0 13 W	"	"	"	"	8-8-8	"	200/70	clearing	SC STR
15	0 25 W	"	1-4	"	"	8-8-8	"	200/70	ansor: calibration table	SC STR
									test + control plate	

265

Date _____

Observer

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35463	12 Lac	22 37.0	+39 43	Gr 2	II ac ^{unsharp}	12.5		20 41	20 50	A
35464	"	"	"	"	"	"		20 51	21 03	C
35465	"	"	"	"	"	"		21 05 $\frac{1}{2}$	21 12 $\frac{1}{2}$	B
35466	"	"	"	"	"	"		21 14	21 23	A
35467	"	"	"	"	"	"	50	21 24	21 33	B
35468	"	"	"	"	"	"		21 34 $\frac{1}{2}$	21 47	C
35469	"	"	"	"	"	"		21 49	22 00 $\frac{1}{2}$	A
35470	"	"	"	"	"	"		22 02	22 17	B
35471	"	"	"	"	"	"		22 08	22 44	C
35472	"	"	"	"	"	"	49°F	22 45	22 55	A
35473	"	"	"	"	"	"		22 56	23 11	C
35473	F1 Focus			"	"	13	49°F			B
7355	Calibration for, later				63-73					

Dome Temp. 24

Thick cloud by 22:30

272

[illegible]

* unbaked

Date Tue/Wed Nov 26/71 Observer Bk-To-51 Julian Day

[illegible]

Dome Temp. 47°F H = 66%

Focus

Dome Temp.

Transparency Conditions cloud alto-stratus 9/10¹¹⁵

277

[illegible]

269

[illegible]

Dome Temp.

Transparency Conditions *Scattered Stratus cumulus*
Clear by 19:00

270

[illegible]

* baked Nov. 2/3/71

Date Thurs./Fri. Nov. 4/5/71 Observer S1 / G1 Julian Day

[illegible]

Dome Temp.

✓ C. 1. 105 TO C. 1. 106

072

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 00 ^m	-26° 22'	—	—	—	10-10 -10		800/ ⁷⁰⁰ Nil.	overcast till ~ 22:30 → HIGH CLOUDS till 22:00 *	*
00 45E	242° 26'	4"	6.61	AOp	8-8-8	G1 Ap + m	400/ ⁷⁰⁰ 104	cloudy / cloudy	FIVE
								* Fe COMP LOOKS FUNNY —	
								MAY HAVE CUT OFF CENTRAL	
								SPECTRUM — Hg FALL	
								SHOULD BE OBVIOUS	

* baked Nov 2/3/71

Date Fri./Sat. Nov. 5/6, 1971 Observer B/n-S/ Julian Day _____[illegible]

Dome Temp.

Transparency Conditions *Lots of clouds - poor*

274

[illegible]

or Label No. 12/3/71

Date 8/1/51 Nov. 7/51 Observer SI-CB/51 Julian Day.....

[illegible]

Dome Temp. 28°F $H = 75\%$

Transparency Conditions Excellent

276

Focus

Focus
Dome Temp. 25°F H=70%

Dome Temp. 25°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
24 ^h 18 W	+21° 58'	2-3	7.4 9.6	F2- K4	8-8-8	Var. Dy	400/125		FIVE
01 ^h 05 W	+16° 47'	2	6.7	K0	8-8-8	Sp-Bin. ^{G1001} C _p	400/ 237	clouds 8:55 - snow	FIVE
00 ^h 31 W	+10° 35'	2-3	5.38	B-6	8-8-?	Sp-Bin. B _n	200/86	first ramp on at slit = 13.5 (no star light at slit 12)	broken
					3/3	no filter.			see camera to camera
								* Anson, could you over develop these 10 please. in box #2	

277

* unbakedDate Mon. Thurs 8-9/74Observer ML-SI

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35488	12 Lac	22 37.0	+39 45	Grin	IaO*	13/4		17 49	17 57	A
35489	"	"	"	"	"	"	33K	18 00	18 07	B
35490	"	"	"	"	"	"		18 04	18 16	C
35491	"	"	"	"	"	"		18 17 1/2	18 26 1/2	A
35492	"	"	"	"	"	"		18 28	18 36 1/2	B
35493	"	"	"	"	"	"		18 38	18 45 1/2	C
35494	"	"	"	"	"	"		18 47	18 54 1/2	A
35495	"	"	"	"	"	"	33	18 56	19 05	B
35496	"	"	"	"	"	"		19 06 1/2	19 16	C
35497	"	"	"	"	"	"		19 18	19 25 1/2	A
35498	"	"	"	"	"	"		19 27	19 37	B
35499	"	"	"	"	"	"		19 38	19 44 1/2	C
35500	"	"	"	"	"	"		19 49	19 57 1/2	A
35501	"	"	"	"	"	"		19 59	20 09	B
35502	"	"	"	"	"	"		20 10 1/2	20 19 1/2	C

Dome Temp. 25°F H=63%

Transparency Conditions Excellent

278

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 50 E	+40 10	2	5.1	B2 II	8-8-8	14d-0.8	200/80		
01 41 E	"	"	"	"	8-8-8	"	200/80		
01 32 E	"	"	"	"	8-8-8	"	200/81		
01 21 E	"	"	"	"	8-8-8	"	200/81		
01 11 E	"	"	"	"	8-8-8	"	200/81		
01 02 E	"	3	"	"	8-8-8	"	200/80		
00 53 E	"	"	"	"	8-8-8	"	200/80		
00 43 E	"	"	"	"	8-8-8	"	200/80		
00 31 E	"	"	"	"	8-8-8	"	200/82		
00 21 E	"	"	"	"	8-8-8	"	200/80		
00 10 E	"	"	"	"	8-8-8	"	200/80		
00 00	"	"	"	"	8-8-8	"	200/80		
00 10 W	"	"	"	"	8-8-8	"	200/80		
00 21 W	"	"	"	"	8-8-8	"	200/80		
00 32 W	"	"	"	"	8-8-8	"	200/80		

279

unbaked

+ 7 bars 2 Nov 2/3/71

Date Mon Nov 8-9/71 (cont'd)

Observer H. S. / Dy. S. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35503	12 Lac	22 37.0	+39 43	G-72	Il-O*	13/4		20 21	20 29 1/2	A
35504	"	"	"	"	"	"	329K	20 31	20 40	C
35505	"	"	"	"	"	"		20 41	20 50	B
35506	"	"	"	"	"	"		20 51	21 03	A
35507	"	"	"	"	"	"		21 04	21 15	I
35506 ⁸	"	"	"	"	"	"		21 17	21 26 1/2	C
35507 ⁹	"	"	"	"	"	"		21 27 1/2	21 36	A
35508 ¹⁰	"	"	"	"	"	"		21 37	21 45 1/2	I
35509 ¹¹	"	"	"	"	"	"		21 46 1/2	21 56	C
35510 ¹²	"	"	"	"	"	"		21 57 1/2	22 05 1/2	A
35511 ¹³	"	"	"	"	"	"		22 06 1/2	22 15 1/2	B
35512 ¹⁴	"	"	"	"	"	"		22 16 1/2	22 25 1/2	C
35513 ¹⁵	"	"	"	"	"	"		22 25	22 35	A
35514 ¹⁶	"	"	"	"	"	"		22 36	22 45 1/2	B
35515 ¹⁷	NG 12638	01 58.7	+25 27	"	Il-O*	13/3		22 53	00 22	C
35516 ¹⁸	CG Aur	05 53.8	+15 19	"	"	13/3		00 29	02 40	

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

250

log Time S.T.	Hour Angle Ecl	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21	00 41W	+40 10	2	5.1	B2III	8-8-8	14.24	200/80		
22	0 52W	"	"	"	"	8-8-8	"	200/80		
23	1 02W	"	"	"	"	8-8-8	"	200/81		
24	1 15W	"	"	"	"	8-8-8	"	200/80		
25	1 27W	"	"	"	"	8-8-8	"	200/80		
26	1 32W	"	"	"	"	8-8-8	"	200/80	- 2 PLATES NUMBERED	
27	1 48W	"	"	"	"	8-8-8	"	200/80	35506 PLATES 2500	
28	1 58W	"	"	"	"	8-8-8	"	200/80	+ ALL OTHER PLATES	
29	2 09W	"	"	"	"	8-8-8	"	200/90	ARE ACCURATELY NOTED	
30	2 18W	"	"	"	"	8-8-8	"	200/80		
31	2 28W	"	"	"	"	8-8-8	"	200/81		
32	2 37W	"	"	"	"	8-8-8	"	200/80		
33	2 48W	"	"	"	"	8-8-8	"	200/81		
34	2 58W	"	"	"	"	8-8-8	"	200/80	AT END of box	
35	1 13W	25 54	"	8.26	G2III	8-8-8	See notes	800/350		
36	1 05E	35 25	"	7.8- 8.6	SS	8-8	PUT in	800/251	CLOUDS. ← (ANSWER) <u>overexposed</u>	

Date Nov 8/9/71 Observer _____ Julian Day _____

[illegible]

Dome Temp.

Transparency Conditions

284

[illegible]

* dated Nov 9/10

Date Nov. 20/21 Sat-Sun / 71 Observer Sy-Tn / ml-Tn Julian Day

[illegible]

Dome Temp. 34°F 4-883Transparency Conditions Scattered cloud

284

Focus

Dome Temp. 29° 4-556

Time ST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
48	01 47W	+1° 40'	2"	4.5	A5	6-6	Novo Del Std	200/37	cloud & searchlight	STRONG
	00 42W	+60 38	"	2	80D _{pe}	5-5	sy	40/7		VERY STRONG
03	00 47W	"	"	"	"	10	"	40/7		VERY STRONG
11	00 56W	"	"	"	"	10	"	40/7		VERY STRONG
16	01 01W	"	"	"	"	10	"	40/8		VERY STRONG
24	01 09W	"	"	"	"	10	"	40/7		VERY STRONG
29	01 13W	"	"	"	"	10	"	40/7		VERY STRONG
32	01 17W	"	"	"	"	10	"	40/8		VERY STRONG
41	01 27W	"	"	"	"	10	"	40/6	cloud	VERY STRONG
54	02 04W	+29 17	"	7.26	K112	8-8-8	SSV	800/350		U.S.C. WK
	~~-9 38~~	~~22~~	~~2.2~~	~~3.0~~	~~NRO~~	~~8~~	~~By~~	~~300/~~	~~cloud; cancelled~~	
49	01 05W	+23 06	1"-3"	7.4	<545	8-8-8	SSV	410/175		FINE
57	00 39E	10 47	2.3"	5.29	A22	8-8-8	Sp. M.	200/32		FINE
						10-7	200/114		NO CENTRE FEATURE SEEN	

285

+ bated Nov 9/10

Date Nov 22-23 Mon/Tues 1971 Observer Ed-Tn/Gl-Tn Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35529	12 Lac	22 37.0	+39 43	612	Duo *	13/5		17:38	17:54	A
35530	"	"	"	"	"	"	27°F	17:55	18:08	B
35531	"	"	"	"	"	13/4		18:10	18:22	C
35532	"	"	"	"	"	"		18:23	18:33	A
35533	"	"	"	"	"	"		18:34	18:42	B
35534	"	"	"	"	Duo	"		18:43	18:53	C
35535	"	"	"	"	"	"		18:59	19:04	A
35536	HD 12402	01 56.5	+27 56	"	Duo *	13/5		19:10	20:18	C
35537	HD 12638	01 58.7	+25 27	"	"	"	27°F	20:21	22:07	A
35538	HD 15256	02 22.3	+29 26	"	"	"	26°F	22:10	23:56	B
35539	HD 22192	03 29.4	+47 52	"	Duo	9/5	25°F	00:01	00:09	C
35540	HD 37202	05 31.7	+21 05	"	"	"	"	00:12	00:16	A
35541	HD 40457	05 53.8	+35 15	"	"	13/3	24°F	00:24	01:36	B
35542	HD 41511	06 00.5	+16 29	"	"	9/5		02:40	03:08	C
35543	HD 51418	06 52.2	+02 36	"	"	"		03:13	04:11	A
35544	HD 45910	06 25.2	+15 24	"	"	"	22°F	04:16	05:32	B

Dome Temp. 23°F H=6270Transparency Conditions Excellent

286

Focus

Dome Temp.

Anson 1 extra unex. test plate left for 100% of
exposed box - for cal if you want.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
Σ 57 ^m	+40 08	3"	5.1	B2TII	8-8-8	Nd. 4	200/90		STRONG
Σ 45	"	"	"	"	8-8-8	"	200/80		STRONG
Σ 31	"	"	"	"	8-8-8	"	200/80		STRONG
Σ 20	"	"	"	"	8-8-8	"	200/80		STRONG
Σ 11	"	"	"	"	8-8-8	"	200/80		STRONG
0 00	"	"	"	"	8-8-8	"	200/80		STRONG
0 11 W	"	"	"	"	8-8-8	"	200/80		STRONG
1 54 E	28 23	"	7.60	K ₁ III	8-8-8	SSV	800/300		FINE
0 07 E	25 53	"	8.26	G8 III	8-8-8	"	800/300		FINE
0 17 W	29 51	"	8.32	G5 III	8-8-8	"	800/300		FINE
0 02 W	48 12	2-3	4.1	B5c	8-8-8	G1 Shell	40/18		FINE
0 31 E	21 12	2"	2.99	B2	12-12	"	40/18		FINE
0 26 W	35 26	2-3	7.8-8.0	F5	8-8-8	1/2 R ₀ T ₀₀	800/300		FINE
0 53 W	-16 24	1-2"	5.2	Aeg	8-8-8	G1-Shell	200/100		FINE
0 03 W	+42 26	2-3"	6.61	A0p	8-8-8	G1-Ap ₀ m	400/250		FINE
0 52 W	-6 01	2"	1.1	B2c ₁ -2	8-8-8	G1 Shell	400/200		FINE

287

Date.

Date..... Nov 23

Observer

61-70

Julian Day

[illegible]

Dome Temp. 17°

Transparency Conditions

288

[illegible]

Date Thurs Fri Nov 25 26 1971 Observer Ri Julian Day 2455110.5

* Vol of Nov 25/26/27

Date Apr 1-2/21 Wed-Thurs Observer Cb-Tn/Tn Julian Day

[illegible]

Focus

Transparency Conditions *Excellent*

294

Dome Temp. 13° W = 38/6 5.14

Thin cloud 23⁴
but Full Moon

[illegible]

295

Observer Tr. De /

Julian Day

[illegible]

Dome Temp.

296

but completely
affected by

[illegible]

Dome Temp.

then that he ought

298

[illegible]

* Booked 10/25/26

Julian Day

[illegible]

Dome Temp.

Transparency Conditions *Very large - does not*

300

[illegible]

* baked Nov 25/26 (sorry)
** baked Dec 9/10

Date Dec 11-12/71 Sat-Sun Observer Tn/Tn-Med Julian Day

[illegible]

Dome Temp. 34°F H=6070

Focus 70-R (from 50-R)

Dome Temp. 29°F H=8270

Transparency Conditions Excellent

302

Time ST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
12	03 04E	+59 58	2"	8.20	68	3-3-3	GH-Clust	800/125		U.S.L.WK
10	00 50E	+59 56	2-3"	9.51	gk2	3-3-3	"	800/135		SL.WK
50	00 15E	+59 56	3-4"	7.00	F5 II	3-3-3	"	200/30		FINE
39	02 30W	+59 54	"	8.75	"	3-3-3	"	800/125	very slow - some haze	FINE
02	02 50W	+57 01	3-5"	6.2	B1	3-3-3	std vel	200/28		FINE
		in in/out out				10/10	finer in			CENTRE TO VIOLET
19	03 25W	+25 12	2-3"	8.26	G2V	8-8-8	SSV	800/300		FINE
12	02 00W	+26 51	2"	7.40	G2V	8-8-8	"	400/160		FINE
46	01 25W	+28 05	1-2"	7.4	K III	8-8-8	"	400/180		FINE
02	00 12E	+19 42	2"	5.3	F5	8-16	std vel	200/80		STRONG
21	02 05E	+26 57	"	8.46	K1 III	8-8-8	SSV	800/340	DEC CLAMP WON'T OPEN!	FINE
47		+10 28	"	4.97	H1V	8-8-8	spn-ell	200/90		FINE
10		in in/out out				3/3	not in/out			USE CLAMP TO HOLD
01	02 41E	+02 04	3"	3.74	AQT	12-12	Blm sp. bin.	40/16		VERY STRONG

* baked Dec. 9/10

Date Dec 13/14 Mon-Tues Observer TH Julian Day

[illegible]

Dome Temp.

Transparency Conditions *Scat cloud but good* 304

many meteors (very fast) Gem. side

[illegible]

Date Thurs. Fri. Dec^r-17

Observer $P_0 - P_1$

..Julian Day

[illegible]

78%

五

Dome Temp. 26°

80%

ing Time
S.T.

Date Feb. Sat. Dec 17-18 1971 Observer Ri-Ro Julian Day 2443850.5

[illegible]

Dome Temp. ... 140°F

3/0

[illegible]

311

* Baked Dec 17-18

Date Tues - Wed Dec 22-23 1971 Observer Cb-P1-S1 Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35593	HD 213 389	22 25.9	+48° 51	G-12	ITa 015	13/0.5		18:35	19:21	A
~~35594~~	~~HD 57140~~	~~05 31.2~~	~~-00° 22~~	~~G-12~~	~~ITa 015~~	~~13/0.5~~	~~34°F~~	~~19:42~~		~~B~~
~~35594~~	~~HD 37321~~	~~05 32.6~~	~~-00° 50~~	~~G-12~~	~~ITa 015~~	~~13/0.5~~		~~20:29~~		~~C~~
35594	X Per	03 49.08	+30 45.1	"	"	13/1.5		00:23	01:05	A
								01:35	03:02	
35595	HD 87504	10 ^h 00.15	-12° 35	"	ITa 0	13/1.5	26°F	03:10	03:37	B
35596	HD 62044	07 34.04	+29° 09	"	ITa 0	13/1.5	25°F	03:45	04:33	C
35597	HD 98664	11 16.7	+6° 25	"	"	13/1.5		04:42	05:00	A
35598	HD 87504	10 ^h 00.15	-12° 35	"	"	"	24°F	05:05	05:32	B
35599	HD 83702	15 ^h 24.0	+10° 04	"	"	13/1.5		05:37	06:17	C
35600	HD 11001	12 ^h 36.8	+10° 47	"	"	13/1.5	20°F	06:21	06:53	A
35600	calibration step, midday for plates 35595 - 35600									
					ITa 00				22 Dec 1971	

Dome Temp. 28°F

79%

Transparency Conditions

Dear A 18. w should you not

Focus

65%

Dome Temp. 14°F

What a night

18:45 cleared at 19:15

22

[illegible]

Date Dec 28/29, 71 Tues-Wed Observer Ch. J. H. Julian Day 243

[illegible]

Dome Temp.

Transparency Conditions Suddenly very good 3/4
Solid Cloud soon after

[illegible]

* kated 22/23/71

Date Jan 2-3/72

Observer *G.H. Ton / Tn*

Julian Day

[illegible]

Dome Temp. 20° H = 763

Transparency Conditions

Very Windy
Good by 504

38

changed C drive fuses

[illegible]

Y 204-100-28/39

Date Jan 3-4/72 Observer Ta-Hu Julian Day 2443850

[illegible]

Dome Temp.

Transparency Conditions *cloudy*

320

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
~~28 22~~	~~28 22~~	~~2-3~~	~~76~~	~~65~~	~~8~~	~~SSV~~	~~300~~		
~~31 03~~	~~31 03~~	~~2-3~~	~~60~~	~~60~~	~~10~~	~~SSV~~	~~400~~		
					30s				
					30s				

321

* Baked Dec 28-29

* sensitized Jan 5-6

Date Wed-Thurs Jan 5-6 1972 Observer Cb-Ri / Cf+Ch-Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
35620	HD 3360	0 ^h 31.4	+53° 21'	G-12	IIa-D	13/5	20°	17:35	17:41	A
35621	HD ^{KPev} 24534	03 ^h 43.0	+38° 45.1	G-12	IIa-D	13/5		17:50	18:18	B
35622	HD 21699	03 ^h 25.0	+47° 41'	"	"	"		19:26	20:00	C
35623	HD 36526	05 ^h 27.2	-1° 40'	"	"	"	16°F	20:12	<u>21:44</u>	A
35623F1	focus test	202/100		G-12	IIa-D	9	14°F			B
35624	HD 47105	06 32.0	+16° 29'	G-24	1-N ^{uv}	13/5	1	02:39	03:02	A
35625	HD 61421	07 34.0	+05° 28'	G-24	1-N ^{uv}	13/5	13°F	03:10	03:18	B
35626	HD 76644	08 50.3	+48° 26'	G-24	1-N ^{uv}	13/5		03:25	04:12	C
35627	HD 91797	09 ^h 22.6	-08° 45'	"	"	13/5	13°F	04:23	04:30	A
35628	HD 110379	12 ^h 36.5	-01° 34'	"	"	"		05:12	05:40	B
35628T1	calibration step wedge	for plates	35620 - 35623					Jan 6/72		

Focus
Dome Temp. 08°F 75%

322

[illegible]

* baked. Dec. 28/29/71

Observer 51-Ri

Julian Day

Hour And
End

Dome Temp.

Transparency Conditions

324

[illegible]

Baked Dec 28-29

Date Fri-Sat Jan 7-8 1972 Observer R/-R₀/Blu-R₁ Julian Day 2439800

[illegible]

Focus
Dome Temp. 06°F 70%

Transparency Conditions

clear but high winds
scattered clouds then clear up

326

[illegible]

* baked Dec. 28/38/71

Observer 51-54

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

fair. - thin cirrus

328

Focus

Dome Temp.

[illegible]

* Behind Ton 9-10 1972

Date Mon Tues Jan 10-11 1971 Observer Hd-R. Julian Day 174.5[illegible]

Transparency Conditions

330

Dome Temp.

[illegible]

331

Baked Jan 9-110 72

Date Wed Jan 12 1972 Observer Ri Julian Day

[illegible]

Transparency Conditions ... clear weather, haze, too much smoke 332

Dome Temp. ... 50°F

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1	00°51W	+28°05	3	7.40	K5III	10-10-10	S.S.V.	800/300		Strong
2	01°36W	+25°50	3	8.33	K2III	10-10-10	SSV	800/300		"
3	02°31W	+26°48	3		gk2	10-10-10	Bln Spect Bin	200/100		"
4	00°45W	+10 30	4	4.97	A1V	10-10-10	"	200/100		"
5	04°54E	+02°07	4	3.74	A0V	10-10-10	"	200/100		"
Jan 14/72 MWP-2/9mm @ 68°F										

* baked Jan 9/10/72

Date Jan 13/14 /72 Observer Hurkens-Ty Julian Day

[illegible]

Dome Temp. ... 11

Transparency Conditions *scattered cirrus - semi bad* ³³ 4

Very bad seeing

[illegible]

* baked Jan 9/10/72

Date Jan 14-15/22 Fri-Sat Observer Tn - Pch Julian Day

[illegible]

Dome Temp.

Excellent

Cloudy 19th
Very windy

532

* *Synaldis*

337

* based Jan 9/10
 ** based Jan 16/17

Date Jan 17/18/72 Mon Tues Observer To. H. K. H. H. / 66^{Tn} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35662	HD 4550	00 42.4	+25 44	612	Duo*	13/3		17:58	19 24	A
35663	HD 23257	03 58.6	+27 37	"	Duo**	"		19:33	20:47	B
35664	X Per	03 49.1	+50 45	"	"	13/5	27°F	20:54	21 34	C
35665	HD 37956	05 37.1	+29 10	"	"	13/3	26°F	21 37	23 15	A
35666	HD 51418	06 52.2	+42 26	"	"	9/5	26°F	23 25		B
35666	HD 37478	05 25.4	-2° 35	"	Duo**	13/5	27°F	00 ^h :08	01:42	A
35667	HD 41753	06 01.9	+14 47	"	"	"		01:46	01:58	B
35668	HD 62044	07 34.0	+28 57	"	"	"		02:02	02:20	C
35669	HD 87504	10 00.3	-12 35	"	"	"	28°F	02:26	02 40	B
35670	HD 98664	11 16.0	+6 35	"	"	"		02:45	02:53	A
35671	HD 90009	10 18.2	+26 04	"	"	13/3		03:01	04:59	B
35672	HD 118905	13 34.8	+27 12	"	"	"		05:02	06:56	C
35672	T1	Calibrate step wedge			for plates		35662 - 35672			

Dome Temp. 17°F H-823

Transparency Conditions

Excellent

338

Focus

Some cloud by 18^h & had seeing
windyDome Temp. 23° H-887

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2 ^h 05	26 15	2.5"	8.16	K0 III	10-8-8	SSV	800/220	thin cloud clouds	Fine
2 32W	27 56	2.3"	7.60	G5V	10-9-10	"	800/250	windy	"
W 1 09	31 05	"	6.66	Op	10-10-10	"	400/164		Too strong
01 02W	29 18	3.4"	7.96	K1 III	10-10-10	SSV	800/260		Fine
		"	6.6	Op	10-	Apur G1	400		
2 3 34W	-02° 31	2.5"	6.3	B3V	10-9-9	cb thess	800/258	light cloud	overd. Fine
03 20W	44° 53	4.5"	4.15	B3 V	15-15	"	40/15		overd. strong
02 02W	29 03	3.4"	4.3	K1 III	15-15	"	40/24		12 min Fine
00 06W	-12 47	4.6"	4.51	B3 V	10-10-10	"	200/35		strong
00 56E	+6 17	"	3.99	K4 V	15-15	"	40/16		strong
02 07W	25 44	3.4"	2.33	K2 III	10-9-9	SSV	800/270	* needed star too faint??	Fine
00 44W	28 55	2.3	8.46	K1 III	7-8-10	"	800/210	very windy	Fine
Jan 19/72	12 min			MWP-2	@ 68°F				

* baked Jan 16/17/92

Thurs - Fri

Observer In - Hurlérs

Julian Day

[illegible]

4 Oct 1972 Jan 16/15/72

Date Jan 21-22/92 Fri-Sat Observer Tn Julian Day

[illegible]

+ baked Jan 16/17/72

Date Jan 25-26/72 Twp. 40 Observer Tn Julian Day

[illegible]

Dome Temp. 9° F

Focus

Dome Temp.

Transparency Conditions some clouds very windy

344

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
56	0121E	26 53	bad		gk2	9-9-9	split-8/n	200/105	too windy, c'ood also	FINE
29	0110E	10 29	2-4	497	A12	9-9-9	"	200/90		SL-STR
40	0305E	+2 08	"	374	A02	1374	"	40/16		SL-STR
dev 90 mm @ C80F in WP-2 26 Jan / 72										

345

* behind Jan 25/26 1972

** censured 26-01-72

Date Wed 9 Jan 26-27 1972 Observer G.H.R. / G.C.F.R. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35680	Stock 2-56	2 ^h 7.5	+58° 57	G43	Ha O*	13/.3	140°F	18:54	20:55	A
35681	HD 13854	2 ^h 9.9	+56 36	"	"	"	140°F	21:02	21:14	B
35682	NGC 1501-59	3 ^h 59	+62 03	"	"	"	120°F	21:29	22:55	C
35683	NGC 1502-B	"	"	"	"	"	120°F	23:04	23:24	A
35684	NGC 1502-A	"	"	"	"	"	120°F	23:26	23:44	B
35685	HD 27587	4 ^h 34.5	+41° 57	"	"	"		23:56	00:23	C
F1				"	"	13/.5	120°F			B
35686	HD 47105	06 32.0	+16 29	G24	I-N**	13/.5		01:01	01:20	A
35687	HD 76644	04 52.3	48 26	"	"	"		01:32	02:12	B
35688	HD 81717	09 22.6	-09 45	"	"	"	120°F	02:35	02:45	C
35689	¹⁷⁰⁰ BS 4382	¹⁷⁰⁰ 11 41 53	¹⁷⁰⁰ -14° 34'	"	"	"		02:55	03:36	A
35690	HD 110379/10	12 36.5	-01 34	"	"	"		03:44	04:27	B
35691	HD 123657	14 02.6	43° 46	"	"	"	120°F	04:35	05:18	C
35692	HD 148256	16 25.0	21 27	"	"	"		05:26	06:23	A
35685 T1	calibration strip under				Il 006		plate	35680 - 35685		

Dome Temp. 100°F 64%

Transparency Conditions *excellent*

34

Focus

Dome Temp. 80°F 75%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02:47W	+59 21	3	8.9	(B)	3-3-3	GH cl.	800/100		FINE
03:04W	+57 03	2	6.2	B15	3-3-3	BH vel	400/50		SL. STR
02:55W	+62 21	2	9.1	(E)	3-3-3	GH cl	800/120		(GRADING) FINE
03:08W	+62 21		7.4	(B)	3-3-3	"	400/50		SL. STR
03:43W	+62 21		7.4	(B)	3-3-3	"	400/50	upposed #1	SL. STR
03:42W	+42 11		7.7	62	3-3-3	sdd vel	400/50		FINE
02:45W	+160 34'	3	V-1:03 I-1:12	A0 IV	90-90-10	A 410Y	40/324	upposed 15"	FINE
	+49 14'		V-1:03 I-2:40	A7 V	90-10 -22	"	40/465	up 45" upposed #2	SL. WK
03:01W	-80 35		V-1:03 I-2:40	K3 II	120-120	"	40/47	exp 5m. plate holder opened (CO. F. GRADING)	FINE
03:05W	-140 30	2	V-1:43 I-2:13	G8 II	90-10 10	"	40/78	up 35m	FINE
03:06W	-01 10'	2	V-1:04 I-2:25	K02	90-90 90	"	40/230	up 40m	FINE
03:04E	+41 05	2	V-1:55 I-1:26	M42 4.5	90-90 90	"	80/66	exp 35m	STRONG
03:05E	+21 39	2	V-1:11 I-1:12	G8 III	90-90 90	"	40/414		VERY STRONG
	plate 336 FC		- 75692	div.		2:14/5 min @ 61°		27 Jan / 72	
	div. in 100 2/90 min @ 68°					27 Jan / 72			

Bahel Jan 25/26

Date Fri Sat ~~Fri~~ 28-29 1972 Observer Ri - Ed Boyle Julian Day

[illegible]

Dome Temp. ... 80°F 78%

22

[illegible]

bekey Jan-29

[illegible]

Dome Temp. 10°/7270

Focus

Dome Temp. 7°/81%

Transparency Conditions

Sneaked general
lazy after 00.00

55

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
15W	+40° 57'	2"	2.2 2.7	B2V	15-15	Algol	40/20		STRONG
								clouds!	
06W	+26° 50'	3	4.70	G 7IV	10-10-10	S.S.V	800/300	exposed B2V 3	V. SL. WK
05W	+27° 40'		5.17	K0 III	10-10-10	SSV	800/300		SL. WK
07W	+25 47	2	5.33	K2 III	10-10-10	SSV	800/300		SL. WK
	+28 21		9.55	K0 III	10-20	SSV	300/86	clouds ^{Green photo sensitivity} ~~very difficult~~	(SL) WK

351

[illegible]

Date..... Observer..... Julian Day.....

[illegible]

354

ending Time
E.S.T.

355

356

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AT THE



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